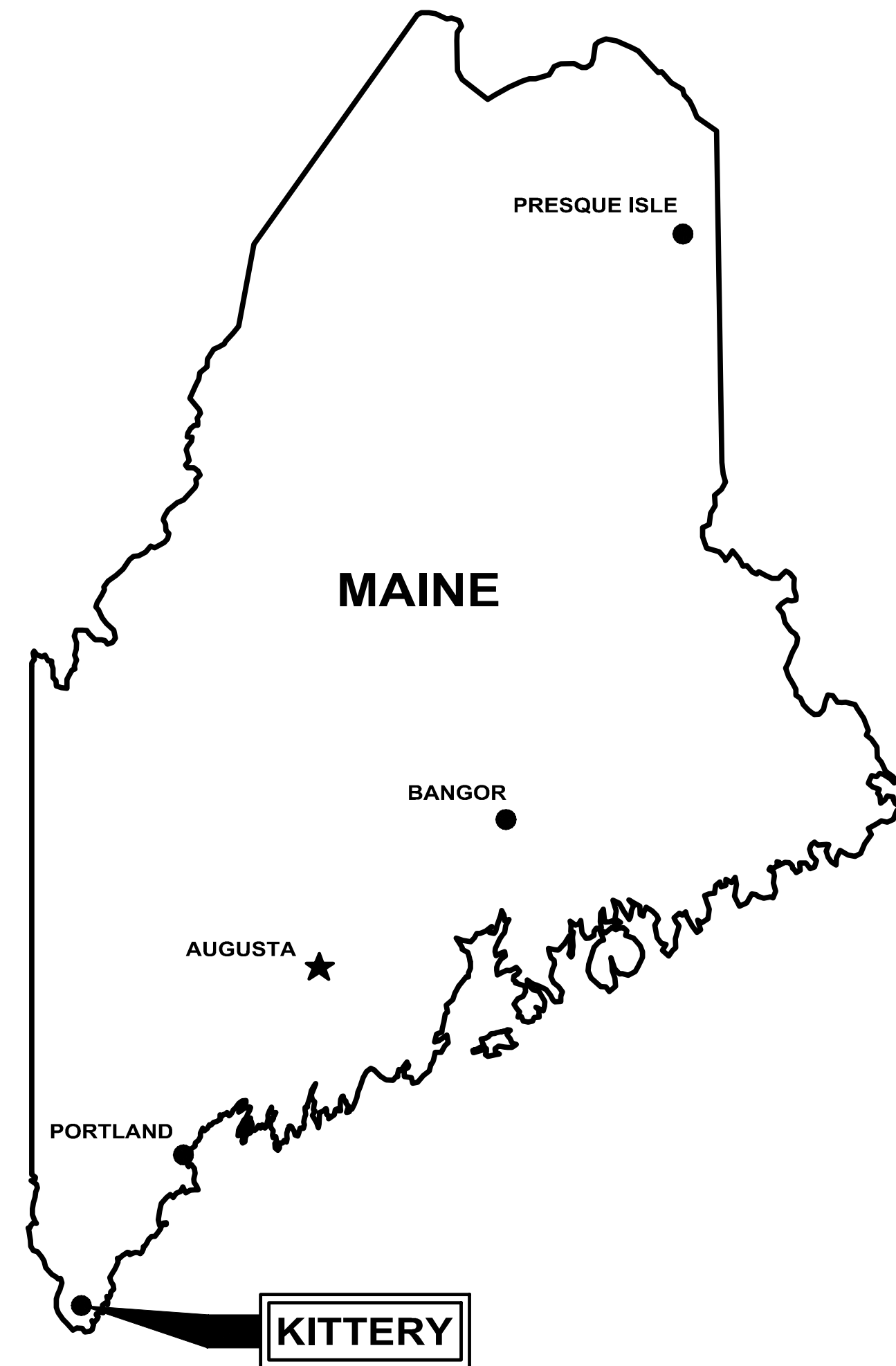


**TOWN OF KITTERY, MAINE**  
**CONTRACT DRAWINGS FOR**  
**PEPPERRELL ROAD**  
**DRAINAGE IMPROVEMENTS**  
**AUGUST 2012**  
**PRELIMINARY REVIEW**



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**GENERAL**

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**LOCATION PLAN**

PRELIMINARY  
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FOR REVIEW AUGUST 2012  
FOR BIDDING \_\_\_\_\_  
WP PROJECT No. 12424A



LAST SAVED BY: MRL 8/31/2012 2:35 PM

G:\DWGS\ME\KITTERY\12424A-FD--BUTTERWORTH\DRAINAGE\GVA\12424A\CO1.DWG | 12424A-C1 | 1:4.56 | ---- | 8/31/2012 3:36:44 PM | MRL

GENERAL NOTES

1. THE CONTRACTOR IS REFERRED TO THE SPECIFICATIONS REGARDING COORDINATION WITH OTHERS, INCLUDING RESPONSIBILITIES AND RELATED COSTS. THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENTS AS NECESSARY WITH EACH RESPECTIVE UTILITY.

2. BELOW GRADE UTILITY INFORMATION IS BASED ON INFORMATION PROVIDED BY EACH UTILITY. LOCATION OF PUBLIC UTILITIES SHOWN IS ONLY APPROXIMATE AND MAY NOT BE COMPLETE. PRIVATE UNDERGROUND UTILITIES SUCH AS, BUT NOT LIMITED TO, SEWER LINES, WATER LINES AND BURIED ELECTRICAL SERVICE ENTRANCES ARE NOT SHOWN. THE CONTRACTOR SHALL ASCERTAIN THE LOCATION AND SIZE OF EXISTING UTILITIES IN THE FIELD WITH THE RESPECTIVE UTILITY COMPANY REPRESENTATIVE PRIOR TO COMMENCING WORK. REFER TO THE SPECIFICATIONS. NO GUARANTEE IS MADE THAT UTILITIES OR STRUCTURES WILL BE ENCOUNTERED WHERE SHOWN OR THAT ALL UNDERGROUND UTILITIES AND STRUCTURES ARE SHOWN. ALL LOCATIONS AND SIZES OF EXISTING UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD WITH TEST PITS AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION OF NEW FACILITIES OR PIPING THAT MAY BE AFFECTED. ADDITIONAL TEST PITS, BEYOND THOSE SHOWN, MAY BE REQUIRED. THE CONTRACTOR WILL REALIGN NEW PIPE LOCATIONS AS REQUIRED TO CONFORM TO EXISTING LINES AND AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY DIG SAFE PRIOR TO DIGGING.

UTILITY CONTACTS ARE AS FOLLOWS:

CENTRAL MAINE POWER COMPANY:  
ATTN: GARY NORTON  
TEL. (207) 242-1247

FAIRPOINT COMMUNICATIONS:  
ATTN: STEPHEN POLYOT  
TEL. (207) 990-5280

KITTERY SEWER DEPARTMENT:  
ATTN: GEORGE KATHIOS  
TEL. (207) 439-4546

KITTERY WATER DISTRICT:  
ATTN: MIKE ROGERS  
TEL. (207) 451-8316

COMCAST:  
ATTN: GEORGE KIRKWOOD  
TEL. (603) 679-5695 EXT.1007

TOWN OF KITTERY:  
DEPARTMENT OF PUBLIC WORKS  
ATTN: MARY ANN CONROY  
TEL. (207) 439-8118

DIGSAFE:  
1-888-DIG-SAFE
3. CONTRACTOR IS RESPONSIBLE TO SECURE ACCESS TO BEACH AREA FOR EQUIPMENT AND MATERIALS.
4. ALL EXISTING SEWER, STORM DRAIN, AND WATER LINES WHICH ARE NOT BEING REPLACED UNDER THESE CONTRACT DRAWINGS AND WATER LINES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE UNLESS OTHERWISE INDICATED. ANY EXISTING SEWERS, STORM DRAIN, WATER LINES, AND CULVERTS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER OR UTILITY OWNERS.
5. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO THE TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. INJURY TO ANY SUCH STRUCTURES CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE RESPECTIVE UTILITY.
6. IN THOSE INSTANCES WHERE POWER OR TELEPHONE POLE SUPPORT IS REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTIFICATION TO THE RESPECTIVE UTILITY COMPANY. NO ADDITIONAL PAYMENT WILL BE PROVIDED FOR TEMPORARY BRACING OF UTILITIES.
7. DO NOT SCALE DRAWINGS UNLESS OTHERWISE NOTED. WRITTEN DIMENSIONS AND STATIONING SHALL PREVAIL. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY. EXISTING CONDITIONS BASED ON SURVEY PROVIDED BY THE TOWN.
8. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TRAFFIC CONTROL DEVICES AS NECESSARY AND IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.).
9. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRAFFIC FLOW AT ALL TIMES. THE CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL PLAN AND HAVE IT APPROVED BY THE OWNER PRIOR TO COMMENCING CONSTRUCTION. THE KITTERY POLICE DEPARTMENT (207-439-1638) AND FIRE DEPARTMENT (207-439-2262) ARE TO BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY STREET CROSSING. STREET CLOSURES ARE NOT ALLOWED. ONE LANE OF ALTERNATING TRAFFIC MUST BE MAINTAINED AT ALL TIMES.
10. THE OWNER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY RIGHTS OF WAY AND EASEMENTS. PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL VERIFY THAT THE NECESSARY EASEMENTS HAVE BEEN SECURED BY THE OWNER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF EACH EASEMENT AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION.
11. OPEN TRENCHES ON THE SITE MAY BE LEFT OPEN IF THE CONTRACTOR PROVIDES ADEQUATE BARRICADING AND LIGHTS IN ACCORDANCE WITH OSHA REGULATIONS, MAINE DOT GUIDELINES AND REGULATIONS, CHAPTER 7 OF THE MUTCD, AND APPROVAL FROM THE OWNER.
12. ALL PROPOSED ROAD, DRIVE, AND SIDEWALK AREA SURFACES SHALL PITCH 1/4" PER FOOT MINIMUM, UNLESS OTHERWISE NOTED ON PLANS. ALL EXISTING ROAD, DRIVE, AND SIDEWALK AREAS SHALL MATCH EXISTING SLOPE CONDITIONS UNLESS OTHERWISE NOTED.
13. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
14. THE CONTRACTOR SHALL NOTIFY ABUTTING RESIDENTS IN PERSON OR IN WRITING AT LEAST 24 HOURS IN ADVANCE OF WORKING IN AN AREA.
15. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH AND MAINTAIN A TELEPHONE NUMBER WHERE THE CONTRACTOR CAN BE REACHED 24 HOURS A DAY, 7 DAYS A WEEK, UNTIL THE PROJECT HAS REACHED SUBSTANTIAL COMPLETION.
16. THE CONTRACTOR IS TO TAKE SPECIAL CARE NOT TO DAMAGE TREES, BUSHES, PLANTS, FLOWERS, STONE WALLS, FENCES, ETC. WITHIN THE CONSTRUCTION AREA UNLESS OTHERWISE NOTED ON PLANS OR AS DIRECTED BY THE TOWN.
17. ANY PAVEMENT TO BE REMOVED SHALL BE SAWCUT PRIOR TO REMOVAL. PAVEMENT IS TO BE SAW CUT AT ALL SIDE ROADS AND PAVED DRIVES, AS WELL AS THE BEGINNING AND END OF THE PROJECT. BUTT JOINTS SHOULD BE USED IN DRIVEWAYS AND SHIPLAP JOINTS IN THE ROADWAYS AND SHOULDERS.
18. THE CONTRACTOR SHALL REGRADE ALL DISTURBED AREAS AS NECESSARY FOR POSITIVE DRAINAGE.
19. ALL TEST PITS SHALL BE EXCAVATED PRIOR TO CONSTRUCTION LAYOUT AND RESULTS REPORTED TO ENGINEER FOR REVIEW FOR CONFORMANCE WITH PLANS. TEST PITS ARE REQUIRED AS NEEDED TO DETERMINE EXISTING UTILITY LOCATION AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED LINES AND STRUCTURES AS SHOWN ON THE DRAWINGS. THE LAYOUT PLAN SHALL BE REVIEWED BY THE ENGINEER PRIOR TO CONSTRUCTION.
20. THE CONTRACTOR WILL UNDERTAKE ALL CLEARING OPERATIONS THAT ARE NOT THE RESPONSIBILITY OF THE UTILITY COMPANIES. THE TOWN SHALL MINIMIZE CLEARING OPERATIONS. CLEARING AND GRUBBING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. ALL GRUBBING AND STUMPS ARE THE PROPERTY OF THE CONTRACTOR AND WILL BE DISPOSED OF AT A SITE PROVIDED BY CONTRACTOR IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REQUIREMENTS.
21. SUITABLE EXCAVATED MATERIALS MAY BE INCORPORATED INTO THE PROJECT. THE OWNER HAS THE RIGHT OF FIRST REFUSAL OF ALL EXCESS SUITABLE MATERIAL FROM THE PROJECT. THIS PROVISION SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS OBLIGATIONS TO REMOVE AND DISPOSE OF ANY MATERIAL DETERMINED BY THE ENGINEER TO BE UNSUITABLE FOR BACKFILLING OR EXCESS SUITABLE MATERIAL UNWANTED BY THE OWNER. THE CONTRACTOR SHALL DISPOSE OF UNSUITABLE AND EXCESS MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REQUIREMENTS. THE CONTRACTOR SHALL NOT HAVE ANY RIGHT OF PROPERTY IN ANY MATERIALS TAKEN FROM ANY EXCAVATION, WITH THE EXCEPTION OF TREES TO BE REMOVED BY THE CONTRACTOR. USE AND PLACEMENT OF EXCAVATED MATERIAL IS PAID FOR ONLY AS COMMON EXCAVATION. TREES TO BE REMOVED SHALL BE THE PROPERTY OF THE CONTRACTOR.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF EROSION. ALL DISTURBED EARTH SURFACES ARE TO BE STABILIZED IN THE SHORTEST PRACTICAL TIME AND TEMPORARY EROSION CONTROL DEVICES SHALL BE EMPLOYED UNTIL SUCH TIME AS ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED. TEMPORARY STORAGE OF EXCAVATED MATERIAL IS TO BE IN A MANNER THAT WILL MINIMIZE EROSION. MATERIALS AND METHODS USED FOR TEMPORARY EROSION CONTROL SHALL BE AS SPECIFIED BY THE "MAINE EROSION AND SEDIMENT CONTROL HANDBOOK FOR CONSTRUCTION: BEST MANAGEMENT PRACTICES" PREPARED BY THE MAINE SOIL AND WATER CONSERVATION COMMISSION.
23. THE CONTRACTOR SHALL CONTROL DUST TO A TOLERABLE LIMIT AS DETERMINED BY THE RESIDENT ENGINEER OR TOWN. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH AND DEBRIS ON PUBLIC STREETS OUTSIDE THE PROJECT AREA. STREETS OPEN TO THE PUBLIC SHALL BE KEPT SWEEP AND FREE OF DEBRIS. DUST CONTROL SHALL BE CONSIDERED INCIDENTAL TO ITEM 652.25.
24. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY HAY BALE FILTERS (OR SIMILAR DEVICES) TO PREVENT ENTRY OF SEDIMENT FROM RUNOFF WATERS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL COLLECTED SEDIMENT, RESULTING IN HIS OPERATIONS UNTIL THE PROJECT IS SUBSTANTIALLY COMPLETE AND READY FOR FINAL PAYMENT. FINAL FLUSHING AND CLEANING OF THE STORM DRAIN SYSTEM PRIOR TO THE TOWN'S ACCEPTANCE IS INCIDENTAL TO THE CONTRACT.
25. THE CONTRACTOR SHALL COORDINATE PAVING WITH THE OWNER. ALL CATCH BASINS, SEWER MANHOLES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADES BY TOWN CREWS PRIOR TO PLACEMENT OF SURFACE PAVEMENT, UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL PAVE AROUND THE ADJUSTED FACILITIES.
26. CONTRACTOR SHALL REMOVE AND REPLACE, OR REPAIR, ALL CURBS, SIDEWALKS, PAVEMENT AND OTHER ITEMS DAMAGED BY HIS CONSTRUCTION ACTIVITIES TO AT LEAST THEIR ORIGINAL CONDITION, AND TO THE SATISFACTION OF THE TOWN AND ENGINEER.
27. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINAL GRADING WITH THE ENGINEER.
28. AREAS DISTURBED BY THE CONTRACTOR OUTSIDE OF THE WORK LIMITS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE TOWN.

GENERAL NOTES (CONT.)

29. THE CONTRACTOR SHALL PROVIDE NOTIFICATION TO KITTERY PUBLIC WORKS, WATER DISTRICT, AND SEWER DEPARTMENT AT LEAST THREE DAYS PRIOR TO COMMENCING WORK
30. NEW DRAINAGE STRUCTURES AND EXISTING DRAINAGE STRUCTURES TO BE ALTERED OR REBUILT ARE TO BE CLEANED BY THE CONTRACTOR AND THE MATERIAL TO BE DISPOSED OF PER TOWN ORDINANCE. THERE WILL BE NO PAYMENT FOR CLEANING NEW, ALTERED, ADJUSTED, OR REBUILT CATCH BASINS.
31. THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PREVENT LOSS OF AGGREGATE BASE AND BEDDING SAND MATERIALS FOR SIDEWALK CONSTRUCTION THROUGH ADJACENT GRANITE CURBING BY INSTALLING FILTER FABRIC AT ALL GRANITE CURB JOINTS. FILTER FABRIC SHALL BE INCIDENTAL TO ITEM 609.11.
32. THE CONTRACTOR SHALL TAKE PRE-CONSTRUCTION PHOTOGRAPHS AND PROVIDE COPIES TO THE OWNER PRIOR TO CONSTRUCTION. THIS WORK SHALL INCLUDE ALL PRIVATE PROPERTY THAT MAY BE IMPACTED BY THE PROJECT.
33. THE TOWN SHALL BE RESPONSIBLE FOR OBTAINING THE PERMITS REQUIRED BY THE STATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BE FAMILIAR WITH THE APPLICABLE PROVISIONS OF THE PERMITS AS THEY APPLY TO THE WORK PRIOR TO BIDDING AND ABIDE BY THOSE PROVISIONS DURING CONSTRUCTION. COPIES OF ALL OBTAINED PERMITS ARE AVAILABLE FOR REVIEW AT THE TOWN HALL. ALL OTHER PERMITS ARE THE RESPONSIBILITY OF THE CONTRACTOR.
34. CURB CUT LOCATIONS FOR DRIVEWAYS ARE TO BE FIELD VERIFIED. ADJUST CURB CUTS IF APPROPRIATE.
35. FLOWS FROM DEWATERING EFFORTS SHALL NOT BE DISCHARGED TO SANITARY OR COMBINED SEWERS.
36. THE CONTRACTOR IS RESPONSIBLE FOR RELOCATING MAILBOXES, BUSINESS SIGNS AND BOULDERS THAT INTERFERE WITH THE NEW CURB OR SIDEWALK TO WITHIN 100 FEET OF THEIR ORIGINAL LOCATION, AS DIRECTED BY THE ENGINEER AND TOWN, OR AS SHOWN ON THE PLANS.
37. ALL AREAS THAT ARE NOT SPECIFICALLY IDENTIFIED ON THE PLANS THAT MUST BE EXCAVATED, FILLED, OR OTHERWISE DISTURBED BY THE CONTRACTOR THAT ARE NOT TO BE PAVED, INCLUDING, BUT NOT LIMITED TO RETAINING WALLS, WALKWAYS, STEPS, FENCES, AND LANDSCAPE AREAS, SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION OR BETTER. THIS WORK IS CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL BE AT NO ADDITIONAL EXPENSE TO THE OWNER.
38. THE CONTRACTOR SHALL RESET OR REPLACE EXISTING STREET & TRAFFIC SIGNS DISTURBED BY THE CONTRACTOR'S OPERATIONS IN ACCORDANCE WITH THE M.U.T.C.D. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE TOWN'S PUBLIC WORKS DEPARTMENT. REGULATORY SIGNS SHALL BE TEMPORARILY MOUNTED CLOSE TO THEIR ORIGINAL LOCATION UNTIL SUCH TIME AS THEY CAN BE PERMANENTLY REMOUNTED.
39. PAVEMENT AREAS TO BE CUT, GROUND AND OVERLAID SHALL RECEIVE A TACK COAT PRIOR TO NEW PAVEMENT PLACEMENT. RATE OF TACK COAT APPLICATION SHALL BE NOT LESS THAN 0.15 GAL/SY.
40. SAWCUTTING IS INCIDENTAL TO PAVING. THERE SHALL BE NO SEPARATE PAYMENT FOR SAWCUTTING.
41. CATCH BASINS SHALL BE 4' DIAMETER STRUCTURES WITH CASCADE GRATE AND FRAME UNLESS OTHERWISE INDICATED.
42. THE CONTRACTOR SHALL PRODUCE AND FURNISH PROJECT RECORDS AS REQUIRED BY THE CONTRACT DOCUMENTS, INCLUDING, BUT NOT LIMITED TO CONSTRUCTION SCHEDULES, BONDS, SHOP DRAWINGS, WARRANTIES, GUARANTEES, CERTIFICATIONS, AND OTHER SUBMITTALS.
43. GUARDRAILS, FENCES AND WALLS THAT ARE REMOVED FOR THE CONTRACTOR'S ACCESS ARE TO BE REINSTALLED AT NO COST TO THE OWNER.
44. LIMITS OF WORK IN EXISTING DRIVES ARE APPROXIMATE AS SHOWN ON THE PLANS. ACTUAL LIMITS OF WORK ARE TO BE DETERMINED BY THE CONTRACTOR AND THE TOWN BASED ON THESE DRAWINGS AND SLOPE AS APPROVED BY THE ENGINEER.
45. INSULATE WITH 2" RIDGED BOARD STYROFOAM INSULATION OVER ANY WATER MAINS, WATER SERVICE LINES, OR GRAVITY SEWER WHERE COVER IS LESS THAN 5 FT., OR THERE IS LESS THAN 2 FT VERTICAL DISTANCE BETWEEN SEWER OR WATER AND STORM DRAIN PIPE.
46. CONSTRUCT TRANSITION RAMPS AT THE ENDS OF ALL SIDEWALKS, DRIVEWAYS, AND ROADWAYS. DETECTABLE WARNING DEVICES SHALL BE INSTALLED ON ALL SIDEWALK TRANSITION RAMPS AT ROADWAY INTERSECTIONS OR AS OTHERWISE SHOWN ON THE PLANS. SIDEWALKS SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA).
47. THE CONTRACTOR IS TO TAKE SPECIAL CARE NOT TO DAMAGE TREES WITHIN THE CONSTRUCTION AREA UNLESS THEY ARE NOTED TO BE REMOVED. TREES TO BE REMOVED ARE TO HAVE THE STUMPS REMOVED AND THE PITS SHALL BE LOAMED AND SEEDED.
48. ALL STANDARD DETAILS ARE IN THE STATE OF MAINE DEPARTMENT OF TRANSPORTATION STANDARD DETAILS, REV. DECEMBER 2002, AND THE LATEST REVISIONS.
49. ALL EXISTING WATER SYSTEM GATE VALVES SHALL BE OPERATED BY THE KITTERY WATER DISTRICT. THE CONTRACTOR SHALL COORDINATE WITH THE KITTERY WATER DISTRICT FOR ANY WORK REQUIRING SHUTDOWN OF THE WATER MAIN.
50. THE KITTERY WATER DISTRICT WILL BOTH REPAIR ALL VALVE BOXES THAT ARE IN NEED OF REPLACEMENT AND ALSO RAISE THESE TO GRADE PRIOR TO HOT TOP/CONCRETE INSTALLATION, AND WILL MAKE ALL ADJUSTMENTS TO THE WATER SYSTEM. IF THE WATER DISTRICT DETERMINES THE CONTRACTOR SHALL INSTALL NEW VALVE BOXES AND COVERS, THE WATER DISTRICT WILL PROVIDE THE NEW VALVE BOXES AND COVERS, AND WILL PAY FOR THEIR INSTALLATION OUTSIDE OF THIS CONTRACT. THE CONTRACTOR IS TO COORDINATE DIRECTLY WITH THE KITTERY WATER DISTRICT ON PAYMENT TIMING, AND REQUIREMENTS FOR THIS WORK.
51. ALL AREAS THAT ARE EXCAVATED, FILLED, OR OTHERWISE DISTURBED BY THE CONTRACTOR WHICH ARE NOT TO BE PAVED OR FINISHED WITH BARK MULCH SHALL BE LOAMED, GRADED, LIMED, FERTILIZED, SEEDED, AND MULCHED, UNLESS OTHERWISE NOTED. THE TOP 4 INCHES OF SOIL SHALL BE LOAM. THE CONTRACTOR SHALL WATER THE SEEDED AREA TO AID IN THE ESTABLISHMENT OF THE NEW SEED.
52. TEST PITS ARE REQUIRED TO LOCATE AND RECORD EXISTING UTILITIES AND MITIGATE POTENTIAL INTERFERENCE. THE CONTRACTOR IS RESPONSIBLE FOR RECORDING INFORMATION OBTAINED FROM TEST PITS AND RELAYING THAT INFORMATION TO THE ENGINEER. TEST PITS ARE NOT TO BE BACKFILLED WITHOUT THE ENGINEER'S PERMISSION.
53. SIDEWALKS SHALL NOT BE INSTALLED UNTIL KITTERY WATER DISTRICT HAS RELOCATED THE AFFECTED EXISTING CURB STOPS AND EXISTING WATER SERVICES.
54. INSTALL A "Lip" AT EACH DRIVEWAY THAT SLOPES AWAY FROM THE EDGE OF PAVEMENT TO PREVENT ROAD RUNOFF FROM ENTERING DRIVEWAYS.

LAYOUT NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED LINES AND GRADES AS SHOWN ON THE DRAWINGS. THE SURVEY WAS UNDERTAKEN USING A LOCAL COORDINATE SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SETTING HORIZONTAL CONTROL POINTS AND FOR MAINTAINING THIS INFORMATION THROUGHOUT THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL ELEVATION REFERENCE INFORMATION PRIOR TO USE IN CONSTRUCTION. REPORT ANY LAYOUT DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
2. THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE OWNER AND ENGINEER. THE CONTRACTOR SHALL LIMIT HIS ACTIVITIES TO THESE AREAS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REESTABLISHING AND RESETING ALL EXISTING PROPERTY MONUMENTATION DISTURBED BY HIS OPERATIONS. THIS WORK SHALL BE PERFORMED BY A LAND SURVEYOR REGISTERED IN THE STATE OF MAINE, AT NO ADDITIONAL COST TO THE OWNER.
4. VERTICAL DATUM IS NAVD88: PROJECT BENCHMARK IS A USGS DISK STAMPED "R-99 1943". ELEVATION = 33.86'

CIVIL ABBREVIATIONS

&	AND
Ø, DIA	DIAMETER
#, NO	NUMBER
APP'D	APPROVED
BLDG	BUILDING
CB	CATCH BASIN
CEN	CENTER
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CO	CLEANOUT
CONC	CONCRETE
COR	CORNER
CY	CUBIC YARD
DEMO	DEMOLITION
DMH	DRAIN MANHOLE
DI	DUCTILE IRON
DR	DRAIN
DWG	DRAWING
EL	ELEVATION
EMH	ELECTRIC MANHOLE
FM	FORCE MAIN
FT	FEET
G	GAS
HYD	HYDRANT
IN	INCH
INF	INFLEUNT
INV	INVERT
LBS	POUNDS
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MW	MONITORING WELL
N	NORTH
NGVD	NATIONAL GEODETIC VERTICAL DATUM
N/A	NOT AVAILABLE/APPLICABLE
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PC	PERFORATED CLAY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PS	PRIMARY SLUDGE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REQ'D	REQUIRED
S	SLOPE, SEWER
SD	STORM DRAIN
SF	SQUARE FEET
SMH	SANITARY SEWER MANHOLE
SQ	SQUARE
STA	STATION
T, XFMR	TRANSFORMER
TBM	TEMPORARY BENCH MARK
THK	THICKNESS
TOS	TOP OF STRUCTURE
TYP	TYPICAL
UD	UNDERDRAIN
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
VC	VITRIFIED CLAY
W/ W	WITH POTABLE WATER

LEGEND

EXISTING	PROPOSED
PROPERTY/ROW LINE	PROPERTY/ROW LINE
SETBACK LINE	SETBACK LINE
EASEMENT LINE	EASEMENT LINE
CENTERLINE	CENTERLINE
EDGE OF PAVEMENT	EDGE OF PAVEMENT
CURBING	CURBING
EDGE OF GRAVEL	EDGE OF GRAVEL
EDGE OF CONCRETE	EDGE OF CONCRETE
CONTOUR	CONTOUR
BUILDING	BUILDING
STONEWALL	STONEWALL
TREELINE	TREELINE
CHAIN LINK FENCE	CHAIN LINK FENCE
STOCKADE FENCE	STOCKADE FENCE
BARB WIRE FENCE	BARB WIRE FENCE
RETAINING WALL	RETAINING WALL
GUARDRAIL	GUARDRAIL
SEWER	SEWER
SEWER FORCE MAIN	SEWER FORCE MAIN
GAS	GAS
WATER	WATER
STORM DRAIN	STORM DRAIN
UNDERDRAIN	UNDERDRAIN
CULVERT	CULVERT
UNDERGROUND ELECTRIC	UNDERGROUND ELECTRIC
OVERHEAD ELECTRIC	OVERHEAD ELECTRIC
IRON PIPE/REBAR	IRON PIPE/REBAR
DRILLHOLE	DRILLHOLE
MONUMENT	MONUMENT
SURVEY CONTROL POINT	SURVEY CONTROL POINT
SPOT ELEVATION	SPOT ELEVATION
SEWER MANHOLE	SEWER MANHOLE
DRAINAGE MANHOLE	DRAINAGE MANHOLE
CATCH BASIN	CATCH BASIN
ELECTRIC MANHOLE	ELECTRIC MANHOLE
TELEPHONE MANHOLE	TELEPHONE MANHOLE
SHUTOFF VALVE	SHUTOFF VALVE
WATER SERVICE SHUTOFF	WATER SERVICE SHUTOFF
YARD HYDRANT	YARD HYDRANT
HYDRANT	HYDRANT
UTILITY POLE	UTILITY POLE
UTILITY POLE W/ GUY	UTILITY POLE W/ GUY
UTILITY POLE W/ LIGHT	UTILITY POLE W/ LIGHT
LIGHT POLE	LIGHT POLE
BOLLARD	BOLLARD
FLAGPOLE	FLAGPOLE
CONIFEROUS TREE	CONIFEROUS TREE
DECIDUOUS TREE	DECIDUOUS TREE
SHRUB	SHRUB
EDGE OF WATER	EDGE OF WATER
STREAM	STREAM
EDGE OF WETLANDS	EDGE OF WETLANDS
FLOODPLAIN	FLOODPLAIN
WETLANDS	WETLANDS
DRAINAGE FLOW	DRAINAGE FLOW
DRAINAGE SWALE	DRAINAGE SWALE
PAVEMENT MARKINGS	PAVEMENT MARKINGS
SIGN	SIGN
MAILBOX	MAILBOX
TEMPORARY BENCH MARK	TEMPORARY BENCH MARK
TEST PIT	TEST PIT
TEST BORING	TEST BORING
TEST PROBE	TEST PROBE
MONITORING WELL	MONITORING WELL
LIMIT OF WORK	LIMIT OF WORK
SILT FENCE	SILT FENCE
RIPRAP	RIPRAP
RAILROAD	RAILROAD
MATCHLINE	MATCHLINE
ROCK OUTCROP	ROCK OUTCROP

PRELIMINARY  
FOR REVIEW ONLY

DESIGNED BY: ###  
CAD COORD: ###  
CHECKED BY: JWB  
DATE: 8-31-12  
APPROVED BY: JWB  
DATE: 8-31-12  
PROJECT NO: 12424A

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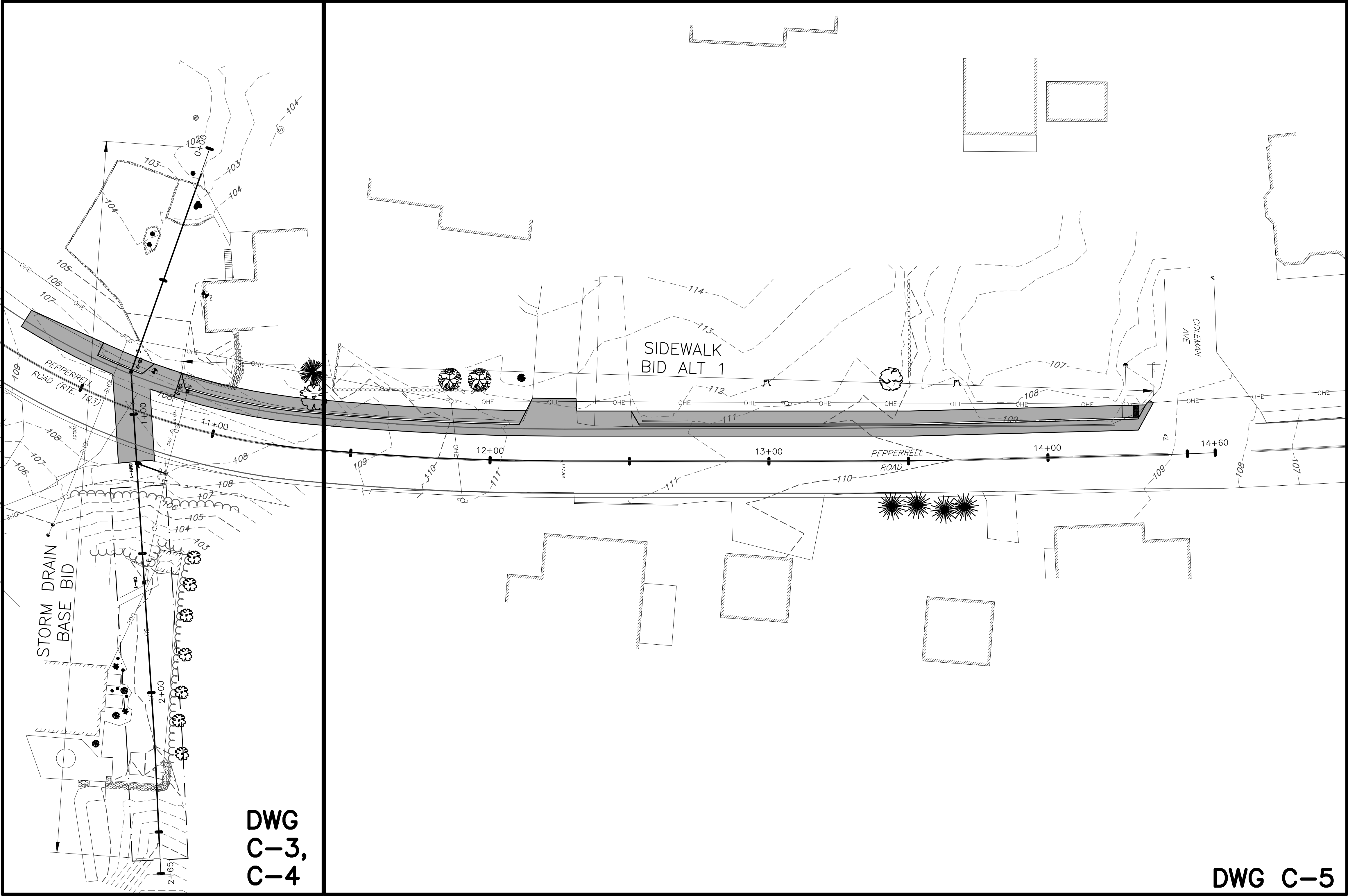
TOWN OF KITTERY  
PEPPERELL ROAD  
DRAINAGE IMPROVEMENTS  
KITTERY, ME

GENERAL NOTES, LEGEND AND ABBREVIATIONS

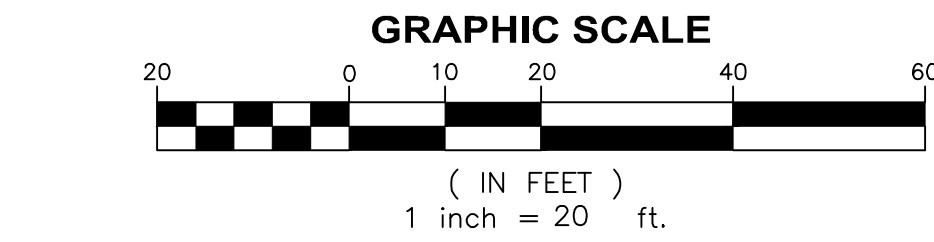
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DRAWING  
C-1

PRELIMINARY  
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PLAN  
SCALE: 1"=20'



TOWN OF KITTERY  
PEPPERRELL ROAD  
DRAINAGE IMPROVEMENTS  
KITTERY, ME

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DESIGNED BY: JBW  
CAD COORD: MRL  
CHECKED BY: JBW  
DATE: 8-31-12  
APPROVED BY: JBW  
DATE: 8-31-12  
PROJECT NO: 12424A

SUBMISSIONS / REVISIONS		NO.	DATE
REVIEW		1	8/12
		2	
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		9	
		10	



MAP 26, LOT 1 & MAP 18, LOT 25  
STATE OF MAINE  
MAINE DEPARTMENT OF CONSERVATION  
BUREAU OF PARKS & LANDS  
22 STATE HOUSE STATION  
AUGUSTA, ME 04333-0022

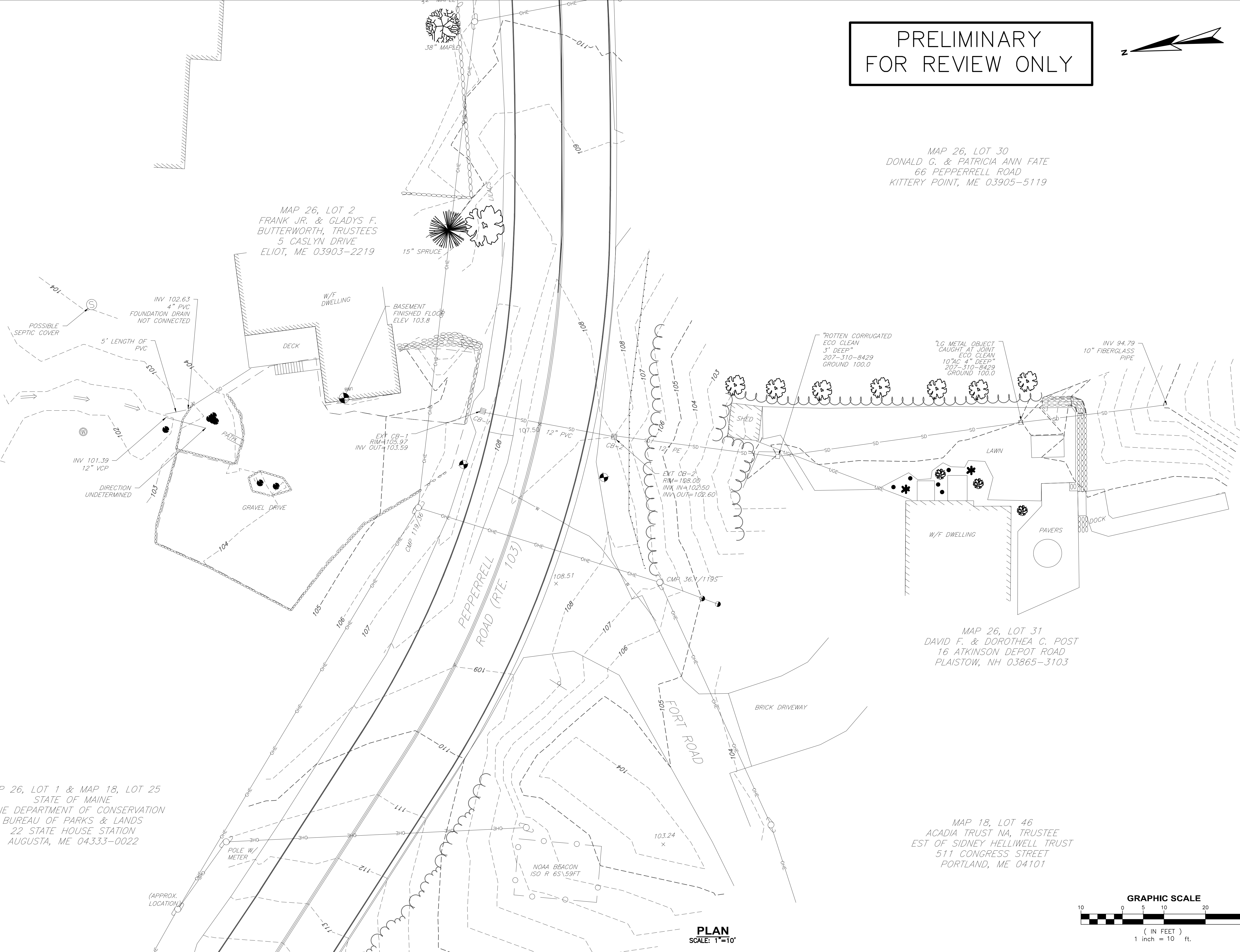
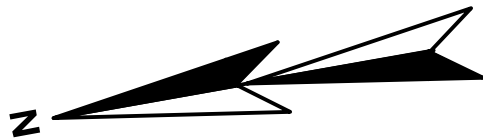
MAP 26, LOT 2  
FRANK JR. & GLADYS F.  
BUTTERWORTH, TRUSTEES  
5 CASLYN DRIVE  
ELIOT, ME 03903-2219

MAP 26, LOT 30  
DONALD G. & PATRICIA ANN FATE  
66 PEPPERRELL ROAD  
KITTERY POINT, ME 03905-5119

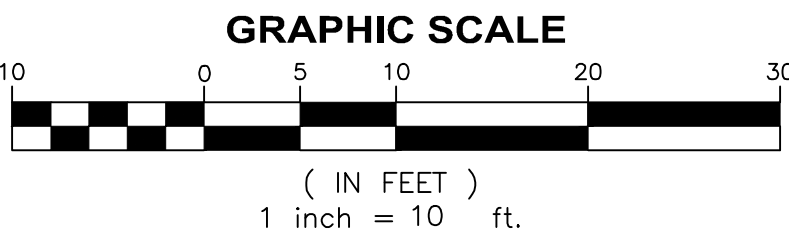
MAP 26, LOT 31  
DAVID F. & DOROTHEA C. POST  
16 ATKINSON DEPOT ROAD  
PLAISTOW, NH 03865-3103

MAP 18, LOT 46  
ACADIA TRUST NA, TRUSTEE  
EST OF SIDNEY HELLIWELL TRUST  
511 CONGRESS STREET  
PORTLAND, ME 04101

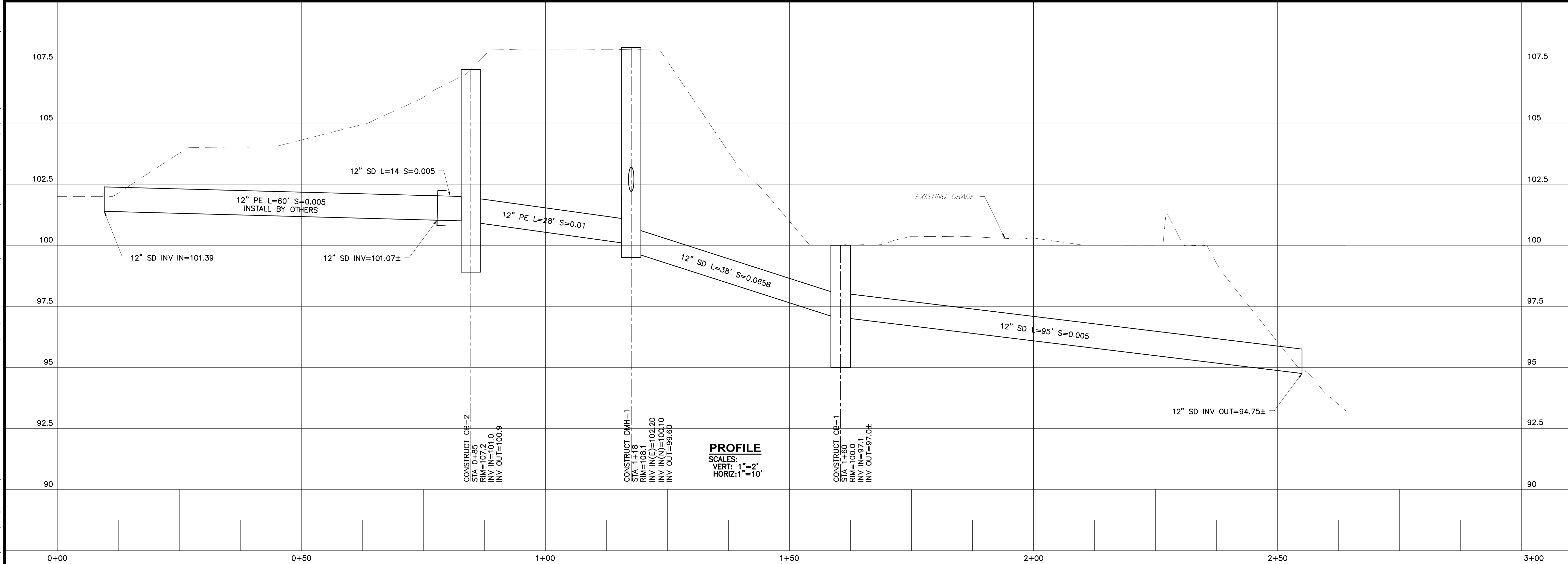
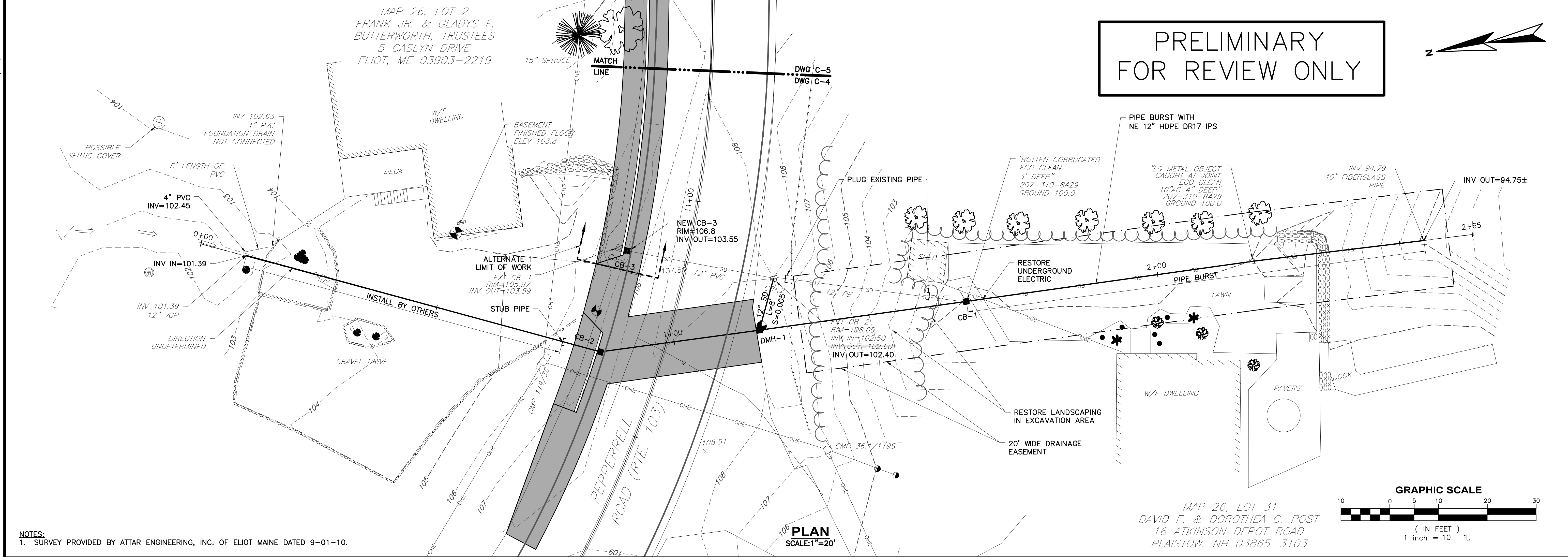
PRELIMINARY  
FOR REVIEW ONLY



PLAN  
SCALE: 1"=10'



TOWN OF KITTERY PEPPERRELL ROAD DRAINAGE IMPROVEMENTS KITTERY, ME		DRAWING C-3		WRIGHT-PIERCE Engineering a Better Environment  Offices Throughout New England 888.621.8156   www.wright-pierce.com						DESIGNED BY: JBW		NO.		SUBMISSIONS/REVISIONS		APPRO. DATE	
										CAD COORD: MRL		MRL					
EXISTING CONDITIONS PLAN										CHECKED BY: JBW		△		REVIEW			
										DATE: 8-31-12							
										APPROVED BY: JBW		△					
										DATE: 8-31-12		△					
										PROJECT NO: 12424A		△					
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SUBMISSIONS/REVISIONS		DATE
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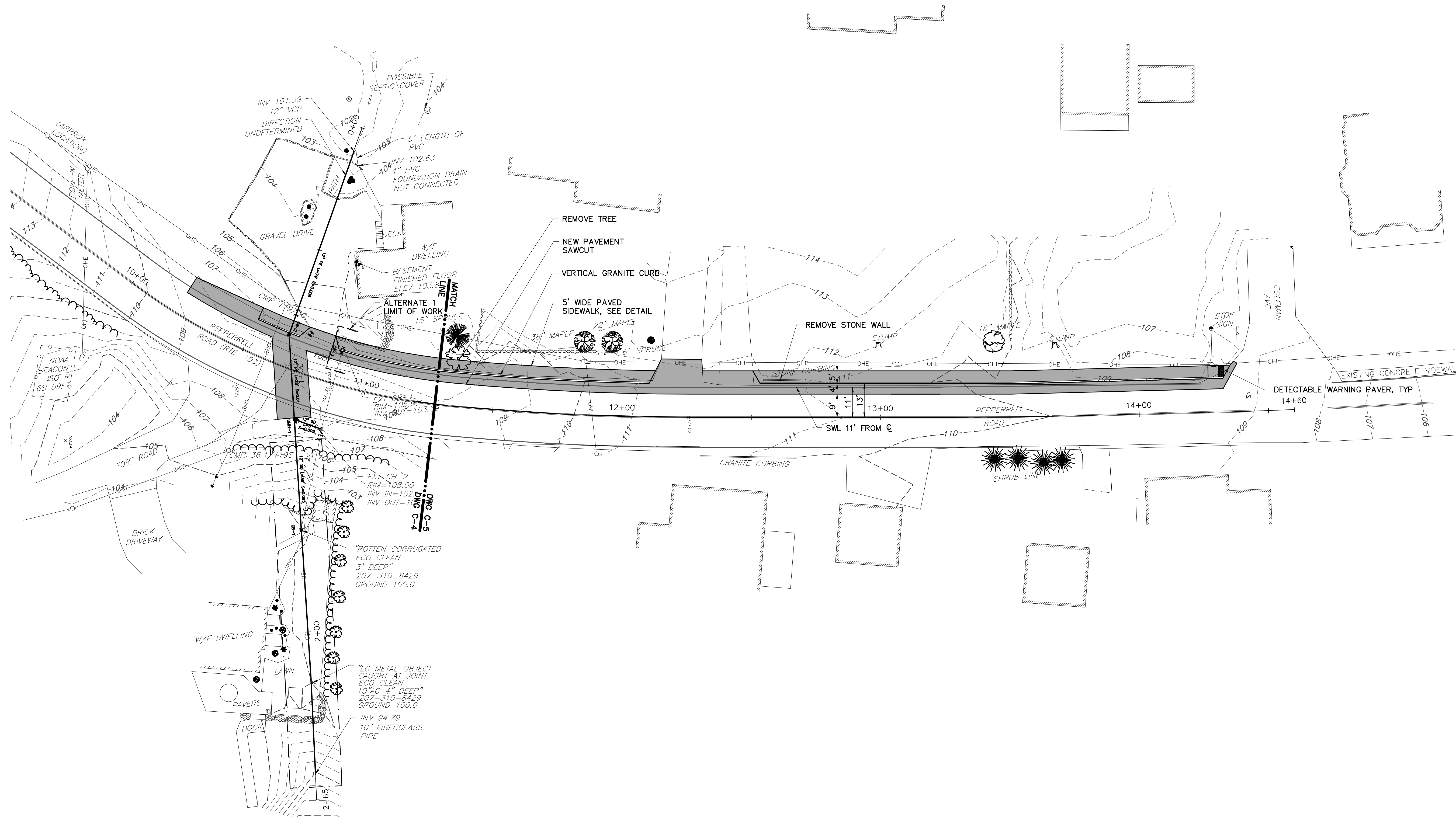
DESIGNED BY	CAD COORD.	CHECKED BY	DATE	APPROVED BY	PROJECT NO.
JBW	MRL	JBW	8-31-12	JBW	12424A
MRL					

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TOWN OF KITTRY  
PEPPERRELL ROAD  
DRAINAGE IMPROVEMENTS  
KITTRY, ME

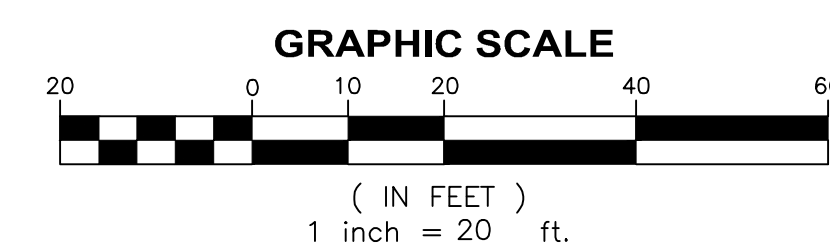
PLAN AND PROFILE  
STA: 1+00 TO 2+65

DRAWING  
C-4



**PLAN**  
SCALE: 1"=20'

PRELIMINARY  
FOR REVIEW ONLY



NOTES:  
1. SURVEY PROVIDED BY ATTAR ENGINEERING, INC. OF ELIOT MAINE DATED 9-01-10.

TOWN OF KITTERY  
PEPPERELL ROAD  
DRAINAGE IMPROVEMENTS  
KITTERY, ME

SITE LAYOUT PLAN  
ALTERNATE 1

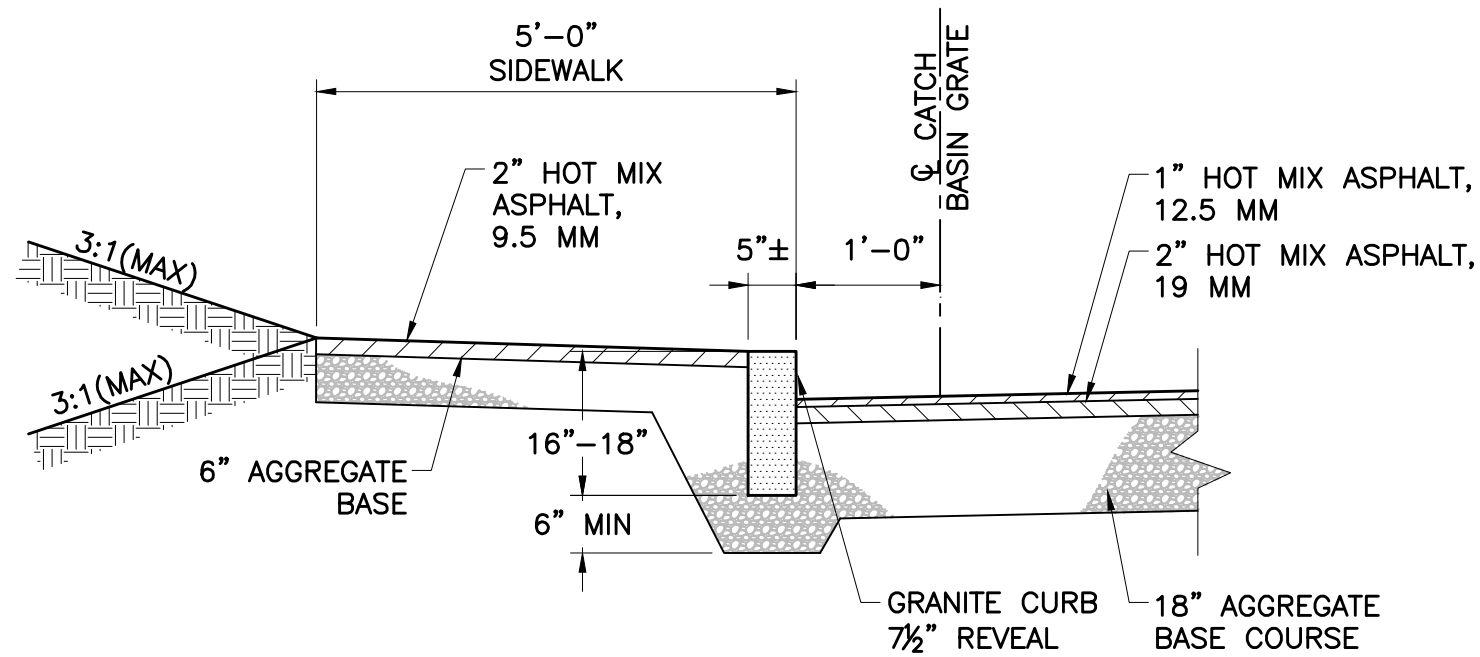
DRAWING  
C-5

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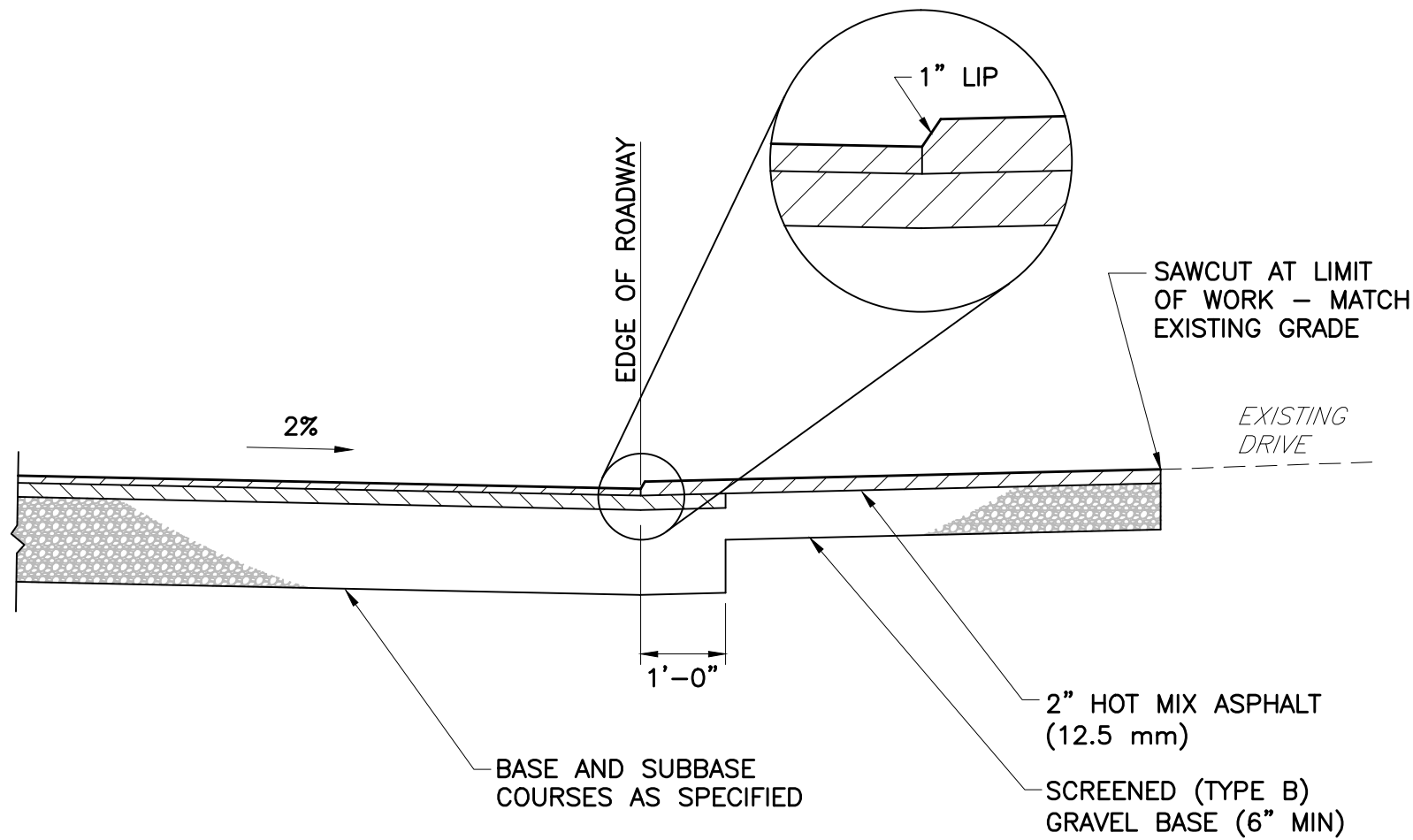
DESIGNED BY: JWB	NO.	SUBMISSIONS/REVISIONS	APPROVED	DATE
CAD. COORD.: MRL				
CALC.: MRL	△	REVIEW	JWB	8/12
CHECKED BY: JWB	△			
DATE: 8-31-12	△			
APPROVED BY: JWB	△			
DATE: 8-31-12	△			
PROJECT NO: 12424A	△			



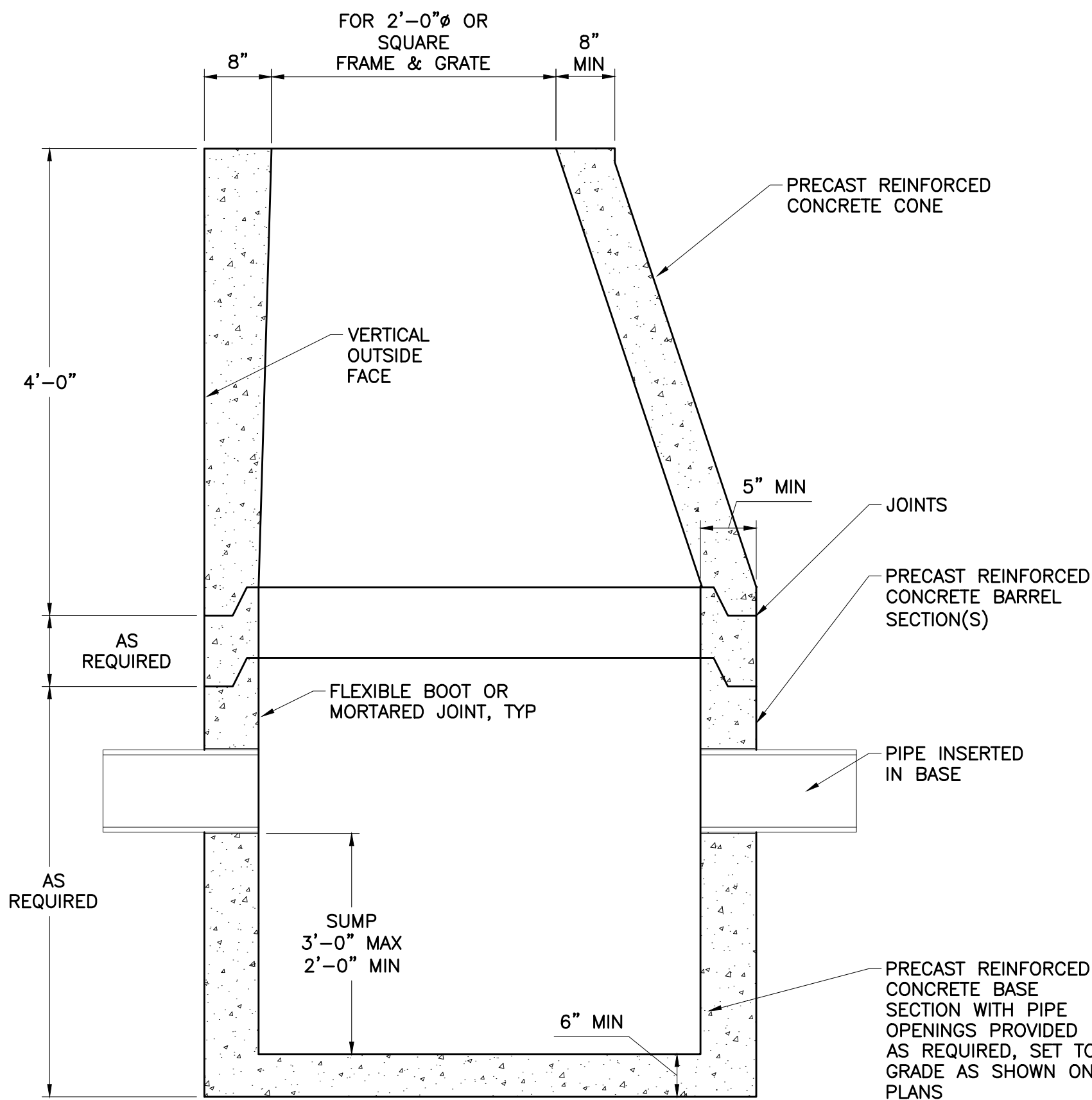


**SIDEWALK WITH GRANITE CURB**  
SCALE: NTS

NOTE: PROVIDE HANDICAP RAMPS AT SITE ENTRANCE.

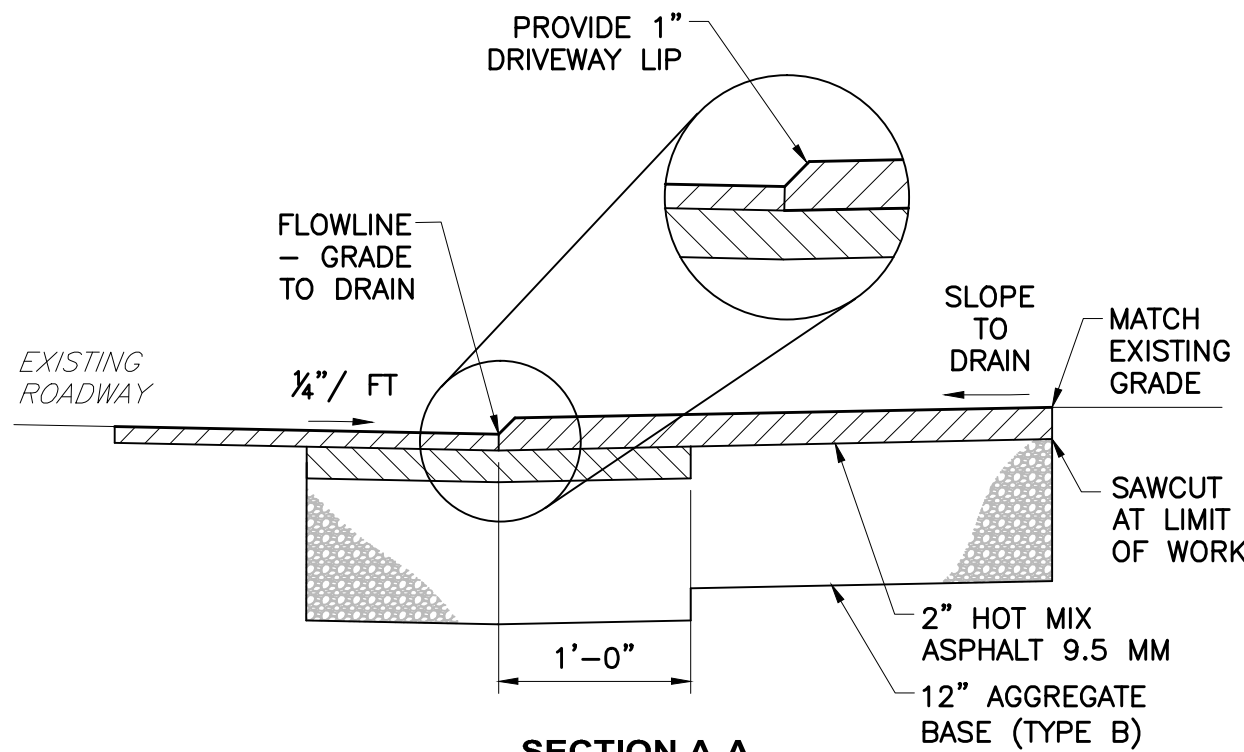


**TYPICAL DRIVE SECTION**  
SCALE: NTS

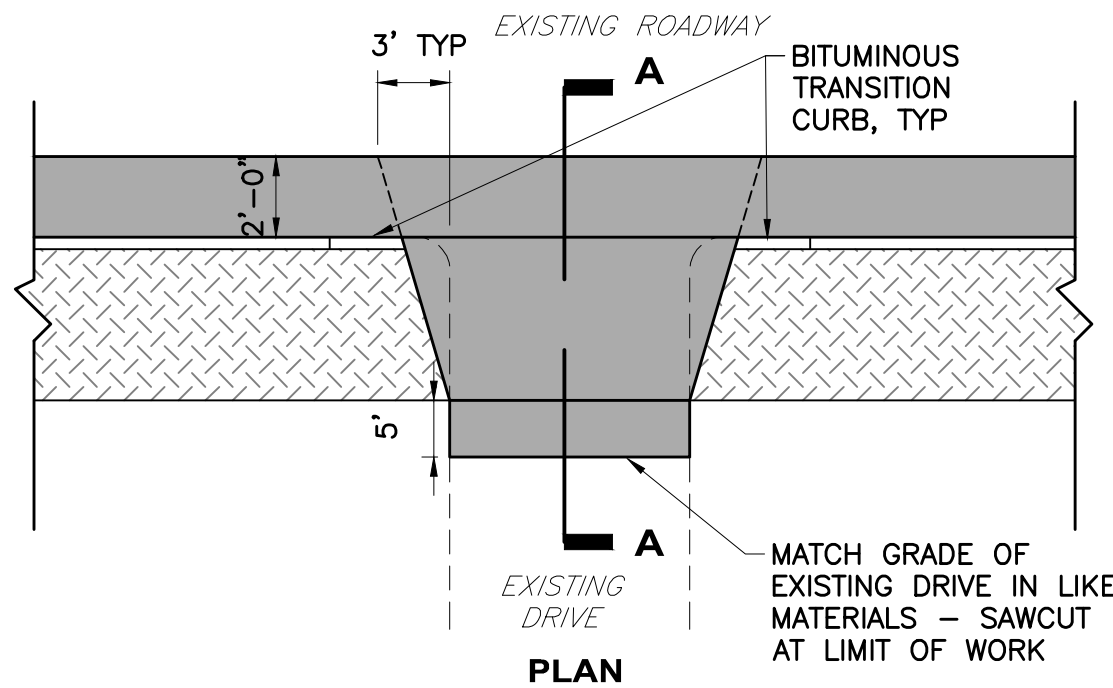


NOTE: USE FLAT SLAB TOP CATCH BASIN WHERE REQUIRED TO MATCH GRADE

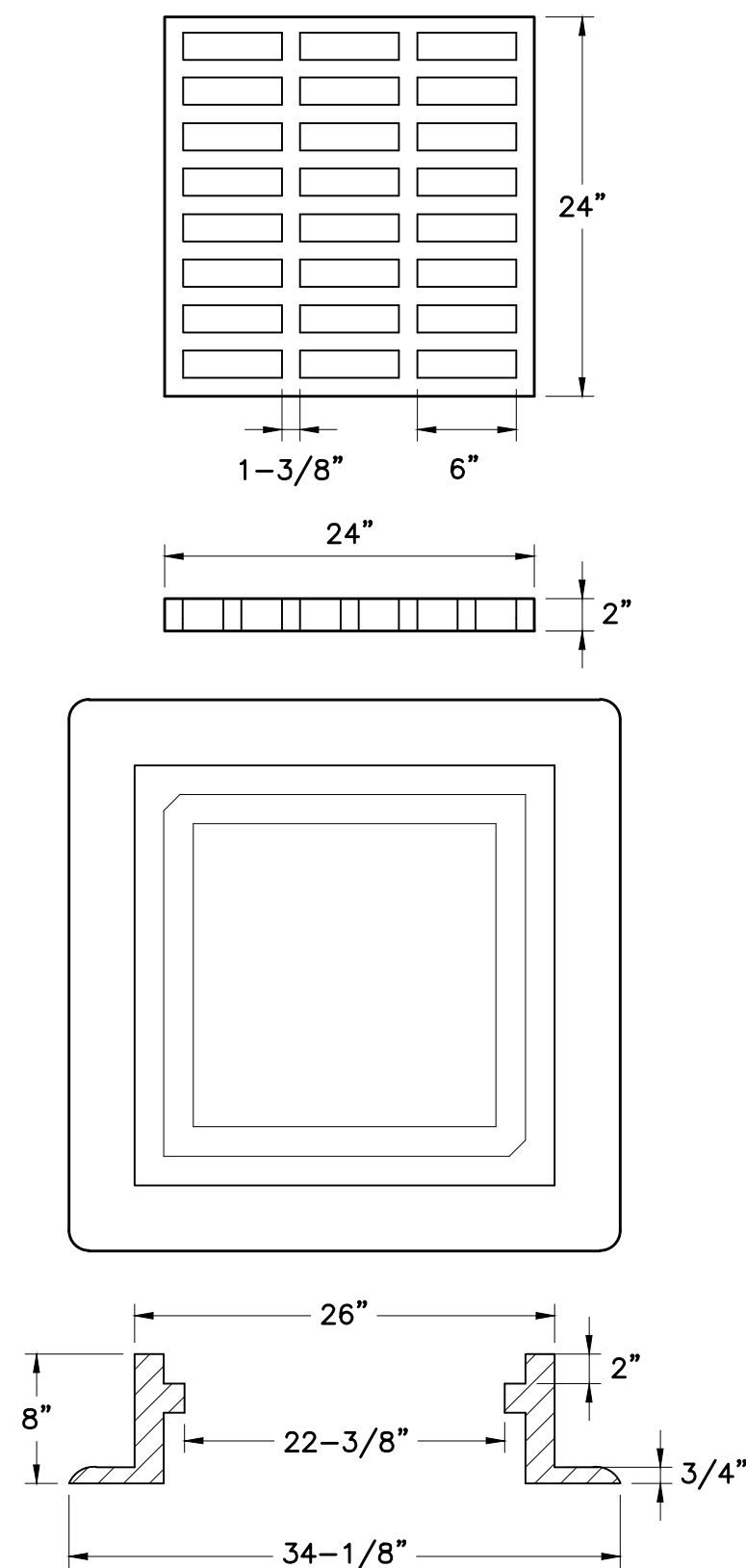
**4-FT CATCH BASIN**  
SCALE: NTS



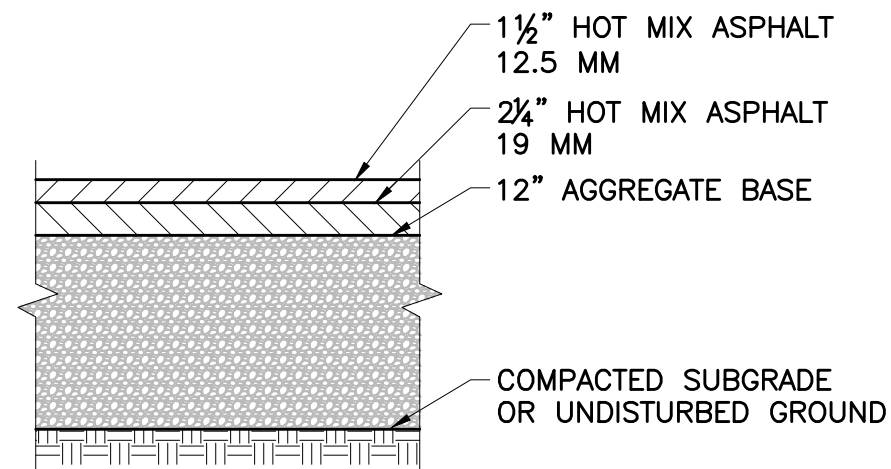
SECTION A-A



**PAVED DRIVE APRON**  
SCALE: NTS

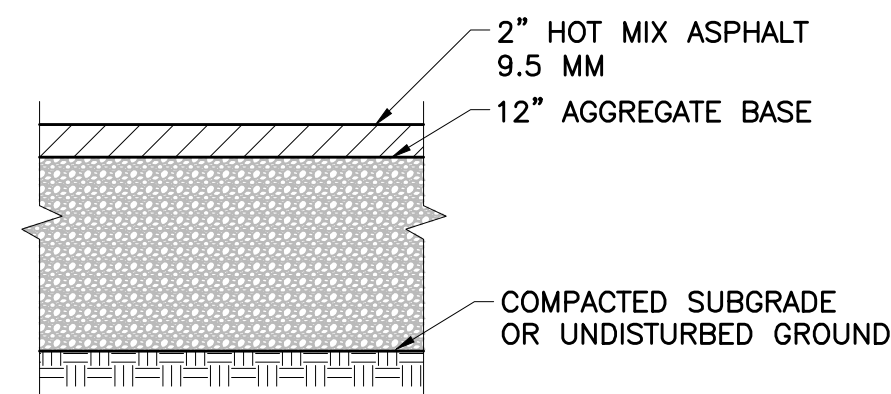


**FRAME AND COVER  
FOR TYPE "A" CATCH BASIN**  
SCALE: NTS

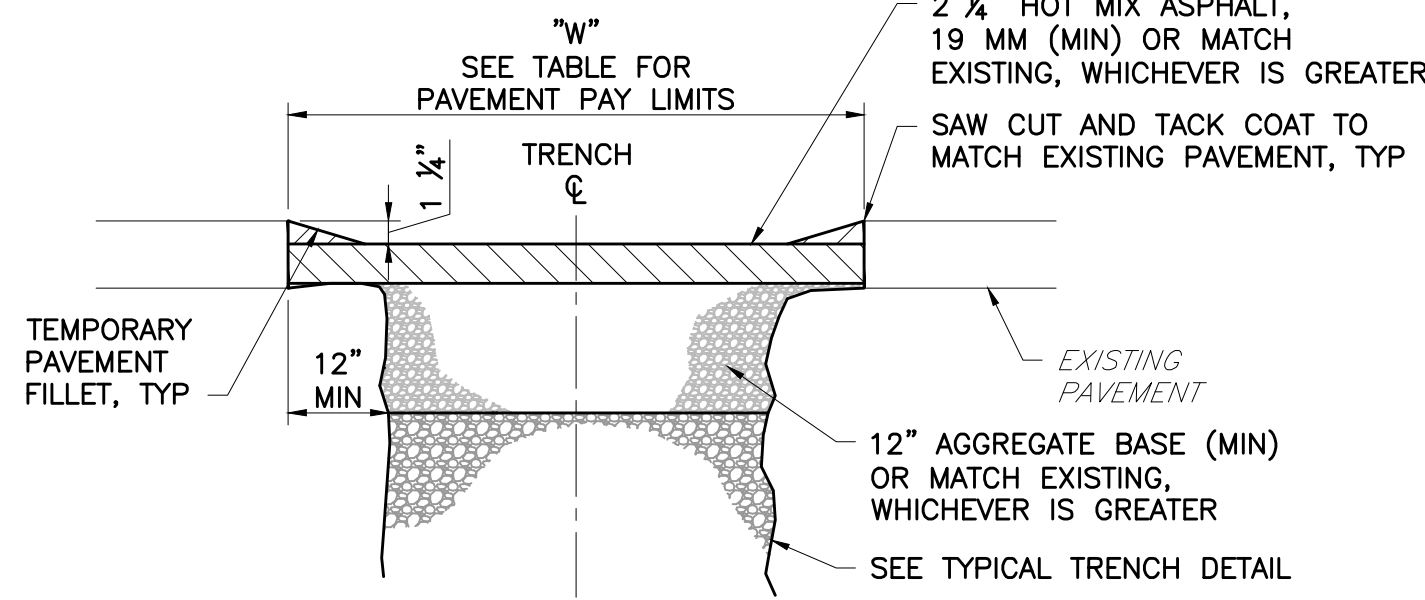


**PARKING LOT PAVEMENT**  
SCALE: "NTS"

**NTS:**  
BASED ON SUPERPAVE MIX DESIGN BY MAINE DOT, TO BE USED ON PARKING LOTS WITH HEAVY TRAFFIC. DISCUSS PAVEMENT DESIGN WITH CIVIL GROUP FOR EACH PROJECT.

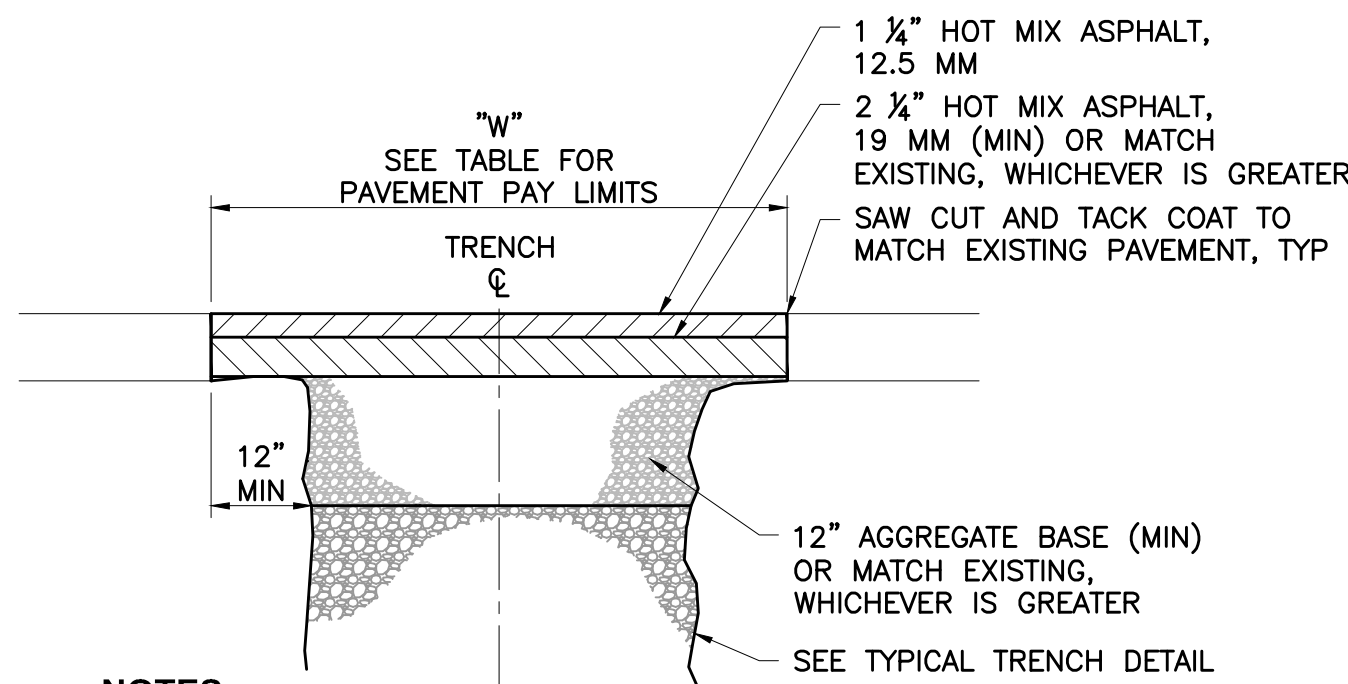


**WALKWAY PAVEMENT**  
SCALE: "NTS"



PAVEMENT PAY LIMITS	
PIPE I.D.	"W" (FOR 0'-10' DEEP)
6" - 15"	7'-0"
16" - 21"	8'-0"
"W" SHALL BE INCREASED BY 1'-0" FOR TRENCHES 10' - 15', AND BY 2'-0" FOR TRENCHES 15' - 20' DEEP.	

**INITIAL TRENCH PAVING  
(FOR STATE HIGHWAYS)**  
SCALE: NTS



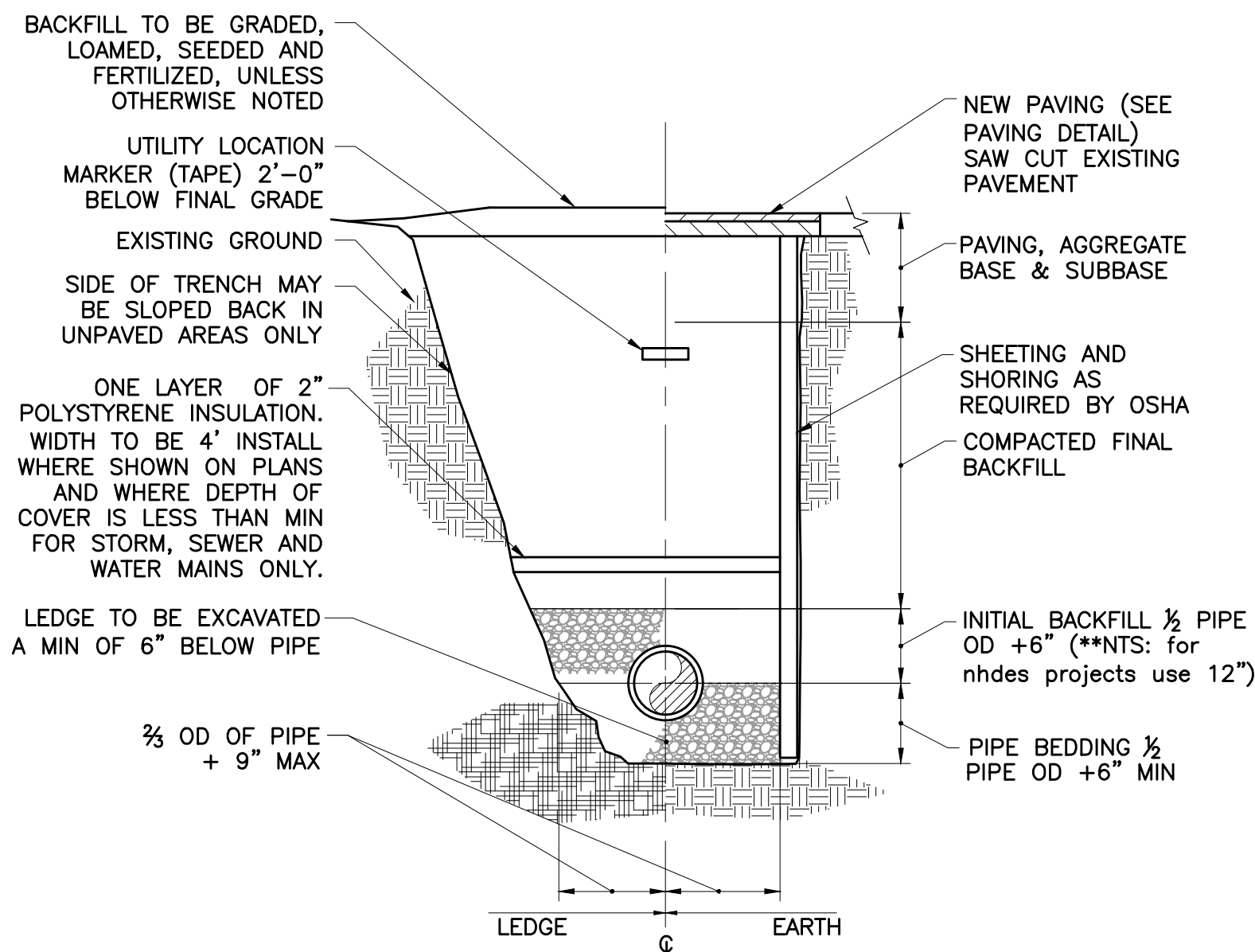
**NOTES:**

1. INITIAL TRENCH PAVING MAY BE USED AS THE BASE COURSE FOR FINAL PAVING IF IN GOOD REPAIR AND IF THE MINIMUM REQUIRED THICKNESS (MIN 2" OR MATCH EXISTING PAVEMENT, WHICHEVER IS GREATER).

**FINAL TRENCH PAVING  
(FOR STATE HIGHWAYS)**  
SCALE: NTS

**NTS:**

DISCUSS PAVEMENT DESIGN WITH CIVIL GROUP FOR EACH PROJECT.



**NOTES:**

1. ALL EXCAVATION MUST MEET OSHA STANDARDS.
2. INSTALL 3 FOOT LONG IMPERVIOUS MATERIAL DAM IN BEDDING/INITIAL BACKFILL MATERIAL EVERY 100' AND WHERE SHOWN ON PLANS TO PREVENT TRENCH GROUNDWATER FROM BEING CHanneled ALONG BEDDING/INITIAL BACKFILL.
3. SEE SPECIFICATIONS FOR BEDDING AND BACKFILL REQUIREMENTS.

**PIPE TRENCH**  
SCALE: "NTS"

PRELIMINARY  
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SUBMISSIONS/REVISIONS		DATE	APP'D.	BY
NO.	REVIEW	DATE	BY	PROJECT NO.
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2	CAD COORD: MRL	8-31-12		
3	CAD: MRL	8-31-12		
4	CHECKED BY: JBW	8-31-12		
5	APPROVED BY: JBW	8-31-12		
6	PROJECT NO: 12424A			

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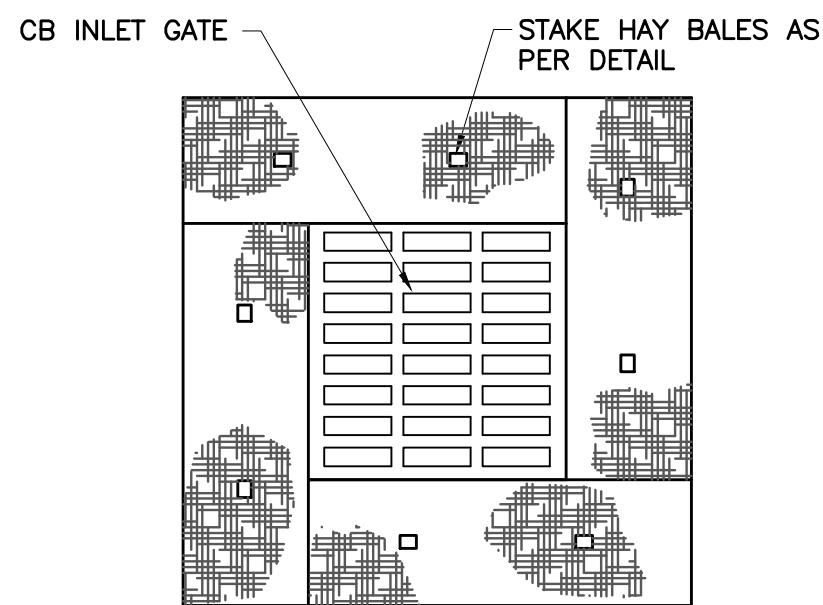
TOWN OF KITTELY  
PEPPERELL ROAD  
DRAINAGE IMPROVEMENTS  
KITTELY, ME

DETAILS

C-6

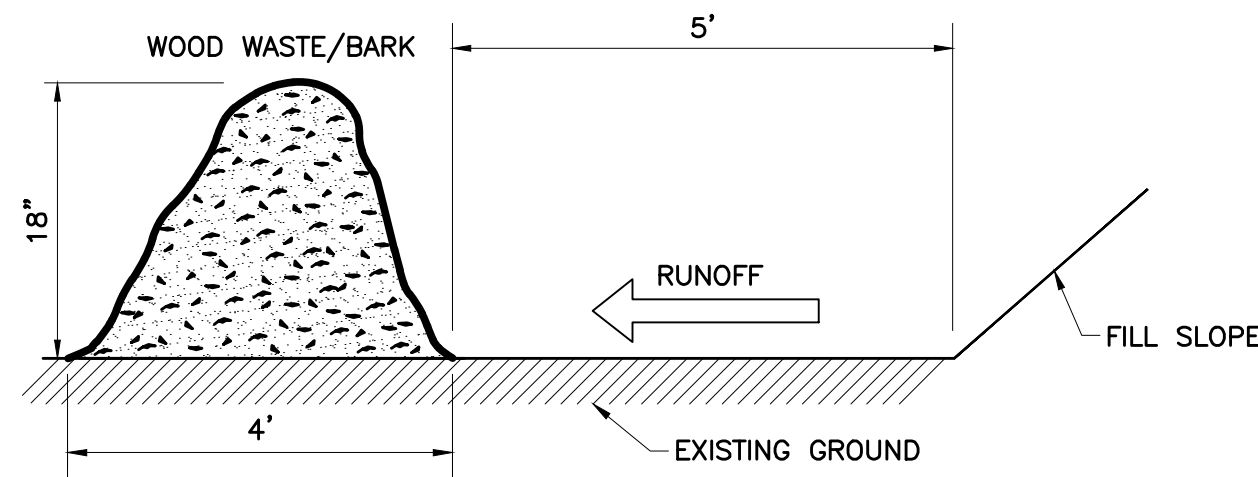
3. WINTER CONSTRUCTION PERIOD DEFINED: NOVEMBER 1 THROUGH APRIL 15
2. WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
3. EXPOSED AREA SHOULD BE LIMITED SUCH THAT THE AREA CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
4. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
5. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDS, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES, MULCH SHALL BE APPLIED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.
6. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE-FREEZING TEMPERATURES, THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDS AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MUST BE STABILIZED WITH MULCH. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT EXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNTIL TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
7. THE APPLICATION OF MULCH TO FINE GRADED AREAS WILL BE STABILIZED AS FOLLOWS:
  - A) BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION, CHEMICAL TACK OR WOOD CELLULOSE FIBER.
  - B) MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
  - C) MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST, THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
8. AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
9. DURING WINTER CONSTRUCTION PERIODS ALL SNOW SHALL BE REMOVED FROM AREAS OF MULCHING PRIOR TO PLACEMENT.

1. WETLANDS AND SURFACE WATERS (EXCEPTING THOSE WHICH ARE TO BE FILLED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS) WILL BE PROTECTED WITH SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
2. IF THE WORK INCLUDES CROSSING OF WETLANDS AND/OR STREAMS, THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS WORKING IN THESE AREAS
3. ANY WETLAND CROSSING WORK SHALL BE COMPLETED BETWEEN THE PERIOD OF MAY 1 AND SEPTEMBER 30
4. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION WITHIN OR ADJACENT TO WETLAND AREAS.
5. WETLAND VEGETATIVE LAYERS SHALL BE REMOVED AND SALVAGED FOR RESTORATION OF THE DISTURBED AREAS.
6. STORAGE AREAS FOR WETLAND MATERIALS SHALL BE PROPERLY PROTECTED AGAINST EROSION.
7. SEEDING OF THE DISTURBED AREAS WITHIN WETLAND AREAS SHALL UTILIZE MIXTURES APPROPRIATE FOR WETLAND AREAS AS OUTLINED IN THE SPECIFICATIONS.

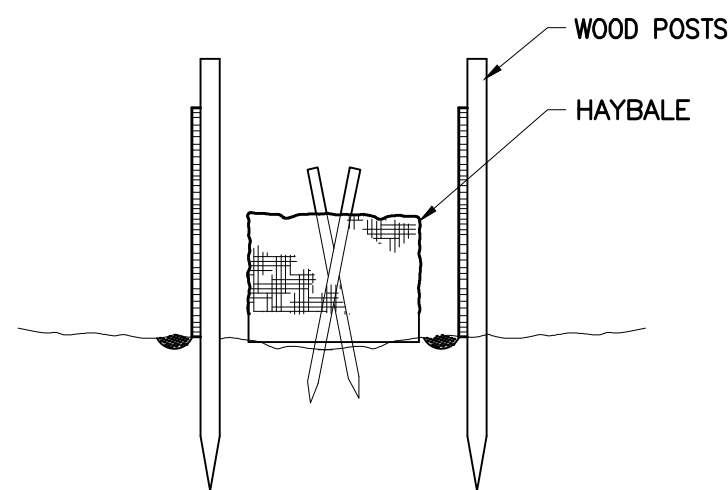


NOTE:  
EMBED HAYBALES MINIMUM OF 4"

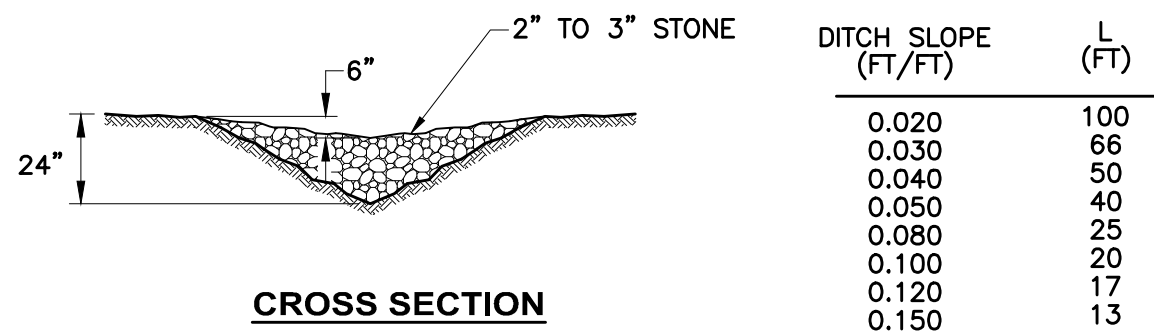
## HAY BALE CB INLET PROTECTION



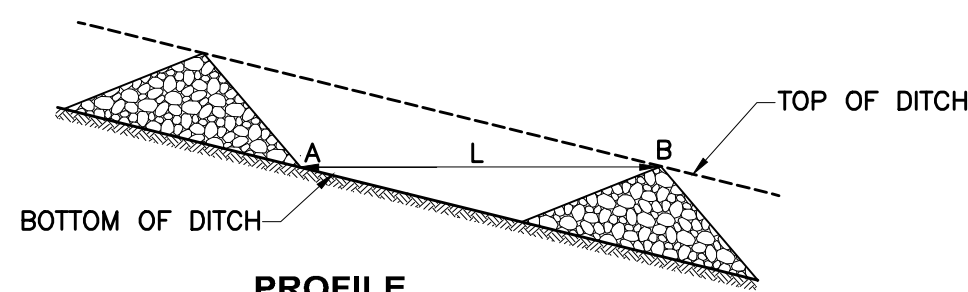
**WOOD WASTE/BARK FILTER BERM**  
SCALE: "NTS"



**COMBINATION SILT FENCE  
AND HAY BALE BARRIER**  
SCALE: "NTS"

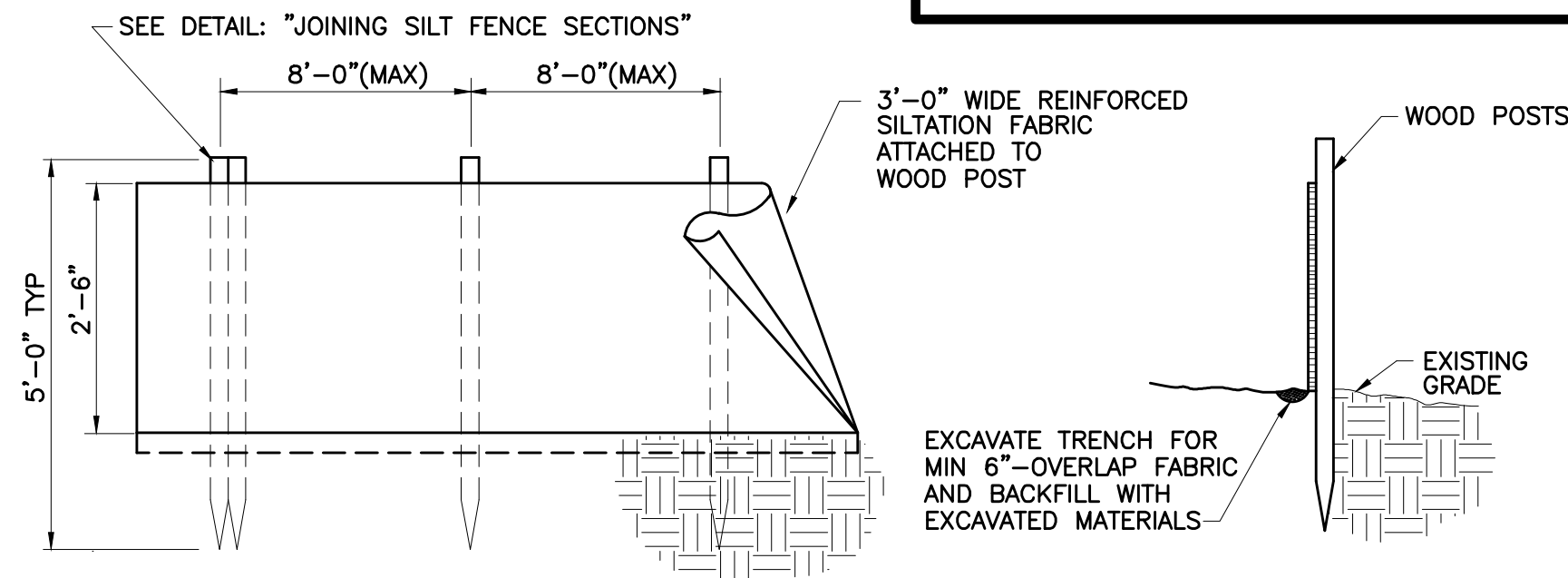


### CROSS SECTION



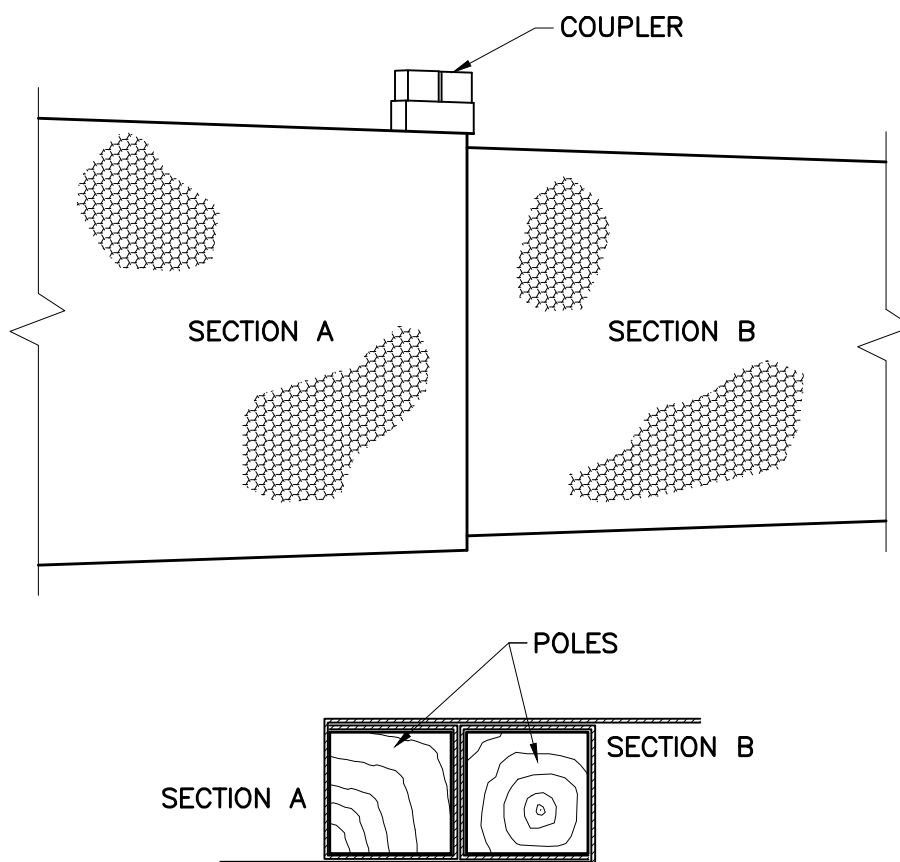
## PROFILE

**STONE CHECK DAM DETAIL**  
SCALE: "NTS"

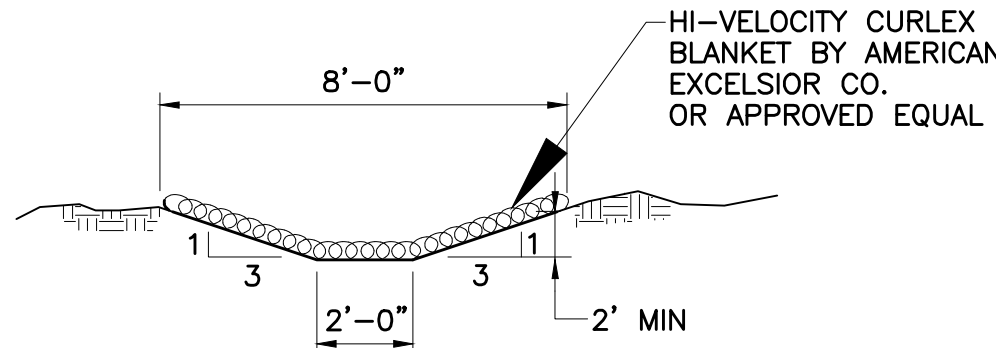


## SILT FENCE INSTALLATION DETAIL

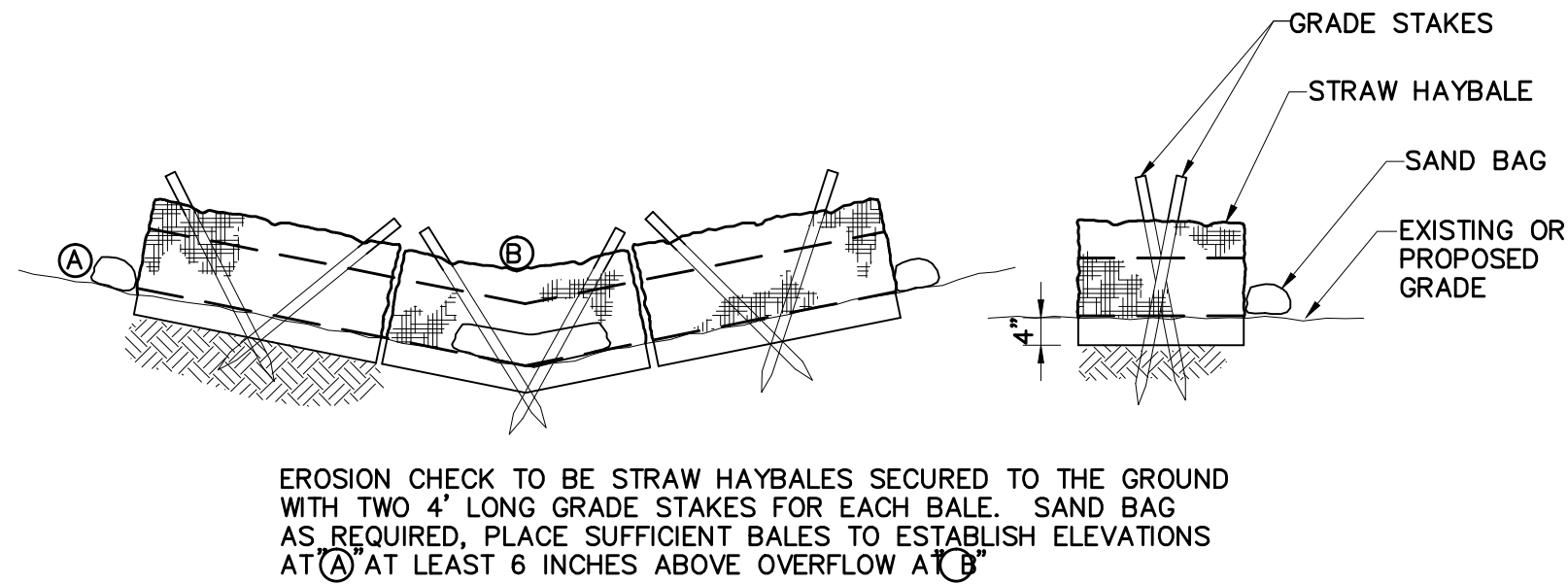
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## JOINING SILT FENCE SECTIONS

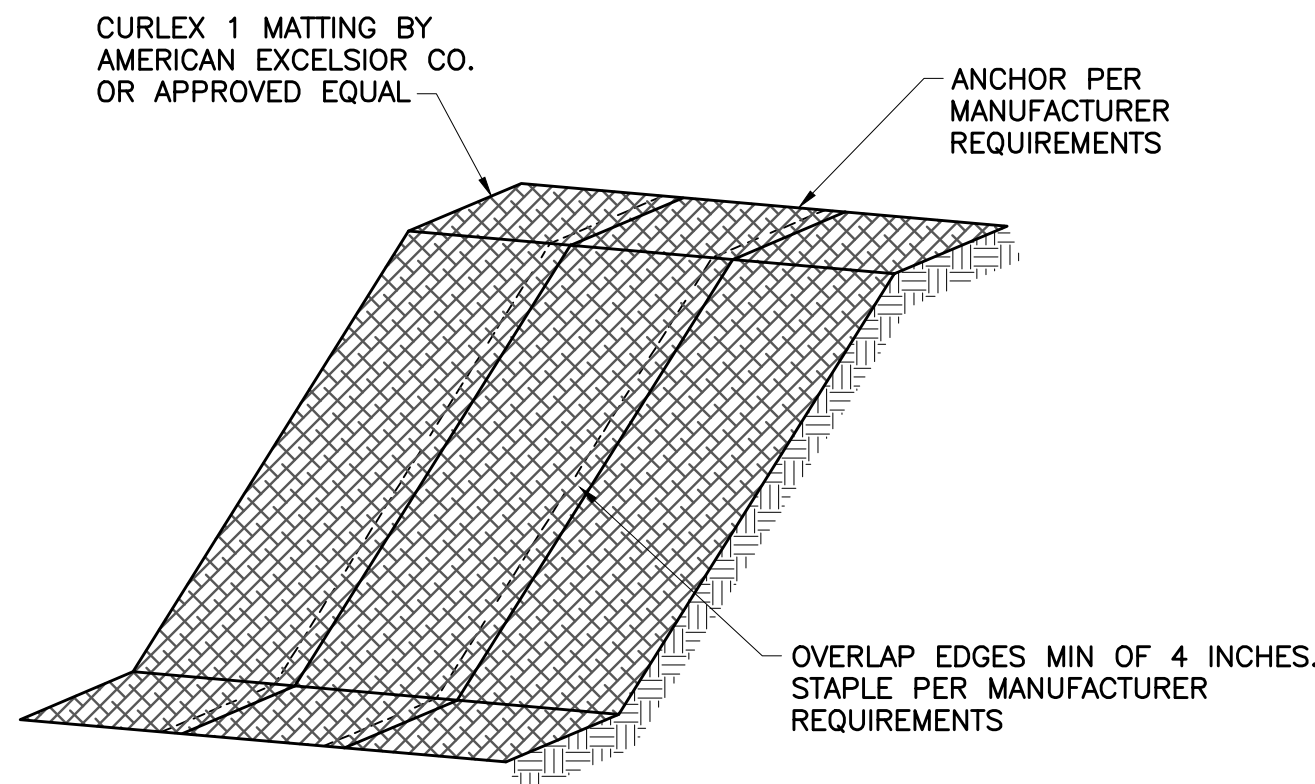


## EROSION CONTROL MATTING - DITCHES



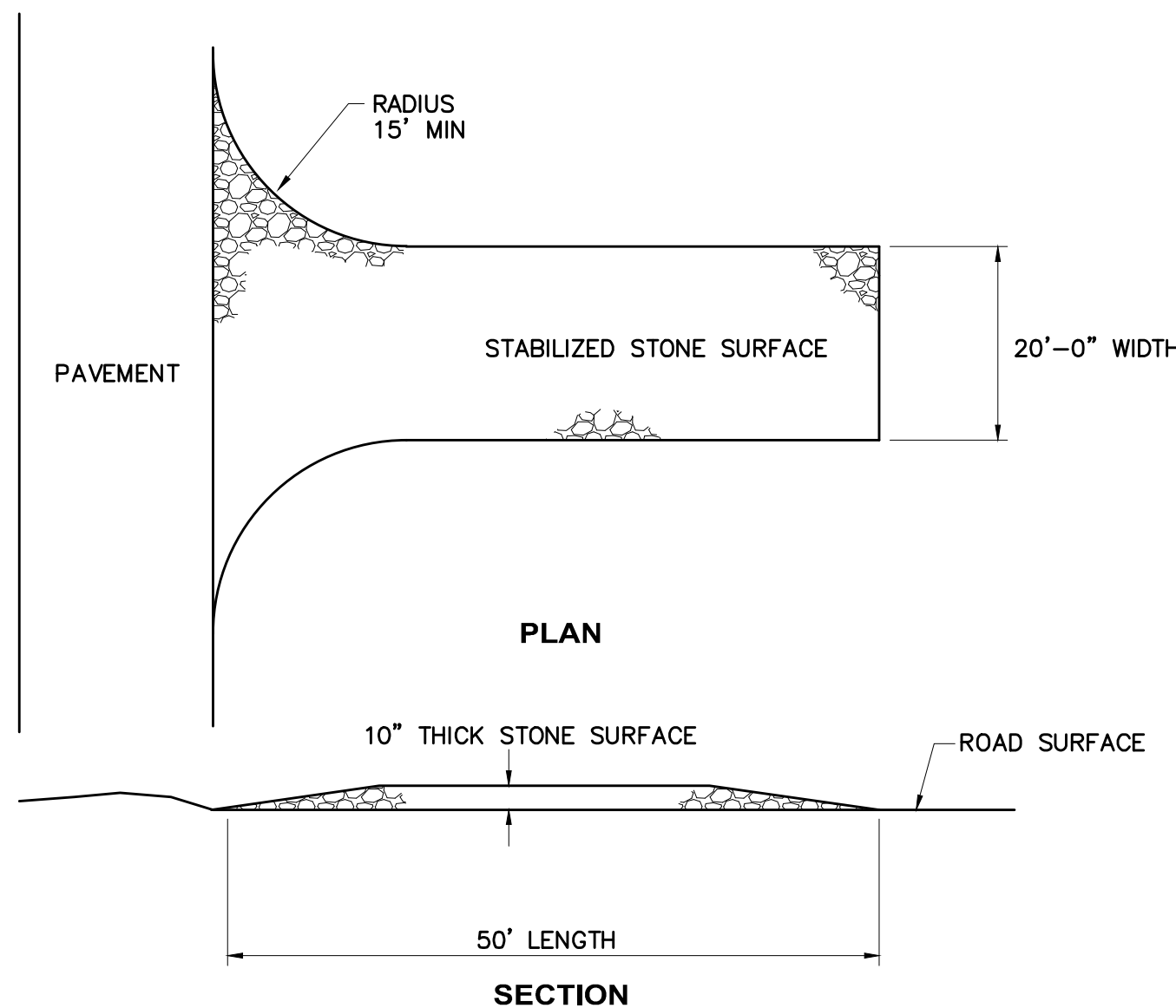
# STRAW HAY BALE CHECK DAM

SCALE: "NTS"



INSTALL ON SLOPES 3:1 OR GREATER

## EROSION CONTROL MATTING - SLOPES



(TEMPORARY, TO BE REMOVED PRIOR TO FINAL SITE PAVING)

## STABILIZED CONSTRUCTION ENTRANCE

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<p><b>TOWN OF KITTERY</b>  <b>PEPPERELL ROAD</b>  <b>DRAINAGE IMPROVEMENTS</b>  <b>KITTERY, ME</b></p>	<p><b>EROSION CONTROL</b>  <b>NOTES AND DETAILS</b></p>	<p><b>DRAWING</b>  C-7</p>	<p><b>WRIGHT-PIERCE</b>  <b>Engineering a Better Environment</b></p> <p><b>Offices Throughout New England</b>  <b>888.621.8156   <a href="http://www.wright-pierce.com">www.wright-pierce.com</a></b></p>	DESIGNED BY: <b>JBW</b>	NO.	SUBMISSIONS/REVISIONS	APPRO.	DATE
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				PROJECT NO.: <b>12424A</b>	△			
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